

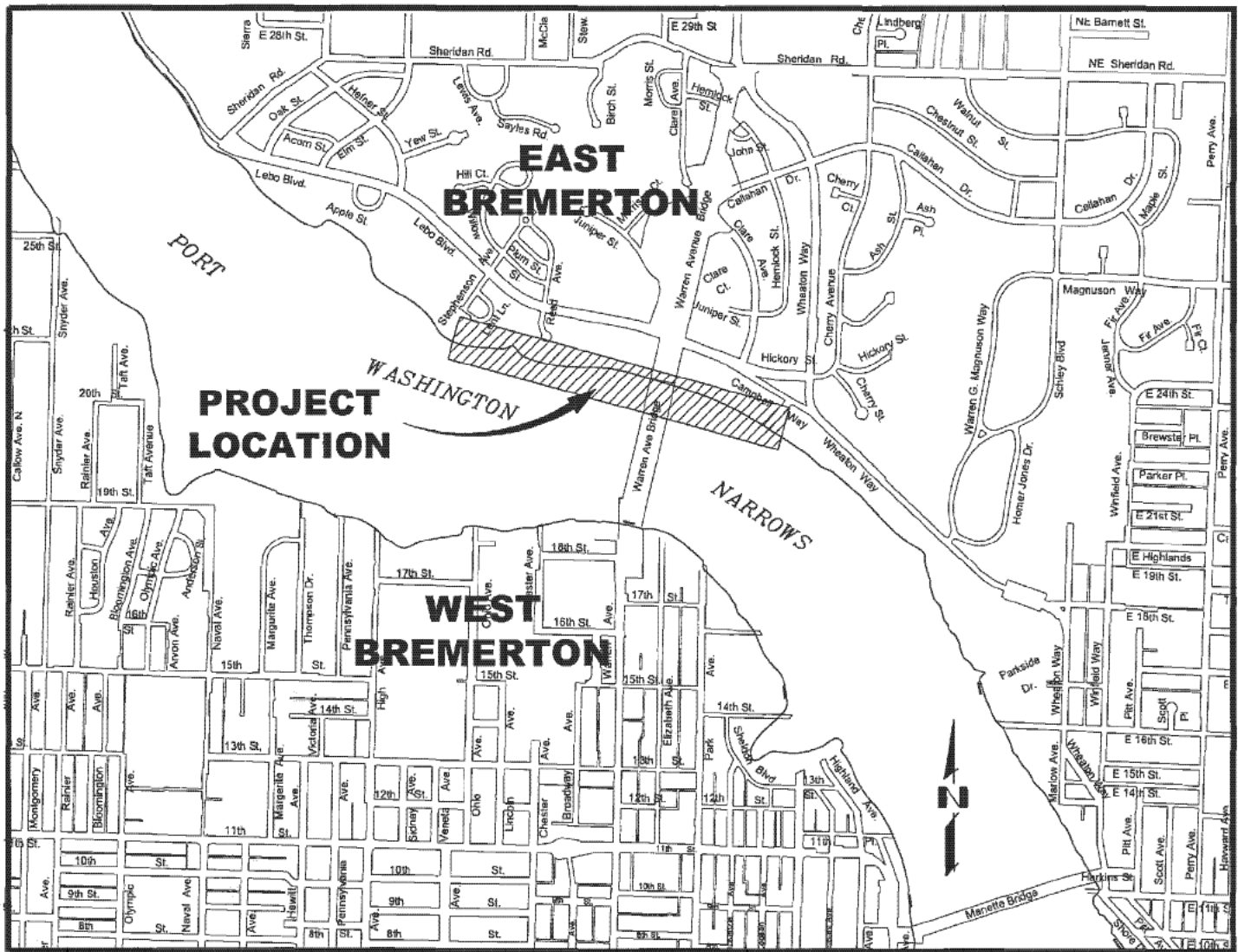


CITY OF BREMERTON  
DEPARTMENT OF PUBLIC WORKS AND UTILITIES

# EASTSIDE BEACH MAIN REPLACEMENT



CITY PROJECT #: 5325



SITE LOCATION MAP  
N.T.S.

### SHEET INDEX

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3	G3	SHEET INDEX AND SURVEY CONTROL
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12	D2	EAST CONNECTION AND BYPASS AT STATION 30+82
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14	D4	SIDE SEWER CONNECTIONS
15	D5	WEST END ACCESS ROAD DETAILS

REVIEWED BY:

*[Signature]*

NED LEVER, P.E.  
MANAGING ENGINEER

APPROVED BY:

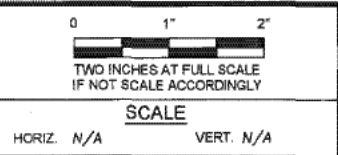
*[Signature]*

TOM KNUCKEY, P.E.  
CITY ENGINEER

MARCH 2013



NO.	REVISIONS	DATE	BY
	DESCRIPTION		



FIELD BOOK  
DRAWING NO.

CITY OF BREMERTON  
DEPARTMENT OF PUBLIC WORKS & UTILITIES  
ENGINEERING DIVISION

DRAWN BY: TH  
DATE 3/13

DESIGN BY: WJD  
WASH. P.E. # 34791 DATE 3/13

CHECKED BY: NL  
WASH. P.E. # 30749 DATE 3/13

EASTSIDE BEACH MAIN REPLACEMENT  
COVER SHEET

G1  
SHEET

1  
OF  
15

PN: 5325

# ABBREVIATIONS

AC	ASBESTOS-CEMENT	MAX	MAXIMUM
ALUM	ALUMINUM	MH	MANHOLE
APPROX	APPROXIMATELY	MHHW	MEAN HIGHER HIGH WATER
ARV	AIR RELEASE VALVE	MIN	MINIMUM
ASPH	ASPHALT	MISC	MISCELLANEOUS
AVE	AVENUE	MJ	MECHANICAL JOINT
AWWA	AMERICAN WATER WORKS ASSOC	MLLW	MEAN LOWER LOW WATER
BLDG	BUILDING	N	NORTH
BM	BENCH MARK	NC	NATIONAL COARSE
BOC	BACK OF CURB	N/C	NORMALLY CLOSED
BOT	BOTTOM	NF	NATIONAL FINE
BOW	BACK OF WALK	NG	NATURAL GAS
		NO	NUMBER
		N/A	NOT APPLICABLE
		NTS	NOT TO SCALE
C&G	CURB & GUTTER	OC	ON CENTER
CB	CATCH BASIN	OD	OUTSIDE DIAMETER
CCP	CONCRETE CYLINDER PIPE	OL	OVERLAY
CDF	CONTROLLED DENSITY FILL	PCC	PORTLAND CEMENT CONCRETE
CF	CUBIC FEET	PE	PLAIN END
CI	CAST IRON	PL	PROPERTY LINE
CL	CENTERLINE, CLASS	PP	POWER
CO	CLEAN OUT	PV	POWER POLE
COL	COLUMN	PVT	PAVEMENT
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CONN	CONNECTION	PW	POTABLE WATER
CONST	CONSTRUCTION	R	RADIUS
CSTC	CRUSHED SURFACE TOP COARSE	RD	ROAD, ROOF DRAIN
CY	CUBIC YARDS	REINF	REINFORCED OR REINFORCING
D	STORM DRAIN	REQD	REQUIRED
DEG	DEGREE	RJ	RESTRAINED JOINT
DEPT	DEPARTMENT	RT	RIGHT
DI	DUCTILE IRON	ROW	RIGHT OF WAY
DIA	DIAMETER	S	SOUTH, SLOPE, SEWER
DP	DEEP	SD	STORM DRAIN
DWG	DRAWING	SDMH	STORM DRAIN MANHOLE
E	EAST	SL	SEWER LATERAL
EA	EACH	SQ	SQUARE
EF	ELECTRO-FUSION	SR	SURFACE RESTORATION
EL	ELEVATION	SS	SANITARY SEWER
ELEV	ELEVATION	SSFM	SANITARY SEWER FORCE MAIN
ELL	ELBOW	SSMH	SANITARY SEWER MANHOLE
EMBD	EMBEDMENT	SST	STAINLESS STEEL
EP	EDGE OF PAVEMENT	ST	STREET
ETP	EASTSIDE TREATMENT PLANT	STA	STATION
EX	EXISTING	STD	STANDARD
FD	FLOOR DRAIN	SY	SQUARE YARDS
FIN	FINISHED	TELE	TELEPHONE
FH	FIRE HYDRANT	TEMP	TEMPORARY
FL	FLANGE	THK	THICK
FLR	FLOOR	TOB	TOE OF BANK
FM	FORCE MAIN	TOS	TOP OF SLOPE
FT	FEET, FOOT	TYP	TYPICAL
FTG	FOOTING, FITTING	UG	UNDERGROUND
G	GAS	UP	UTILITY POLE
GM	GAS MAIN	VERT	VERTICAL
GR	GRADE	VAR	VARIOUS
GS	GAS SERVICE	W	WEST, WATER
GV	GATE VALVE	WB	WESTBOUND
HDG	HOT DIP GALVANIZE	WM	WATERMAIN, WATER METER
HDPE	HIGH DENSITY POLYETHYLENE	WS	WATER SERVICE
HRS	HOURS	WT	WEIGHT
HMA	HOT MIX ASPHALT		
HORIZ	HORIZONTAL		
HT	HEIGHT		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
L	LENGTH		
LF	LINEAL FEET		

# LEGEND

## UTILITY VALVES AND FITTINGS

	FLANGED CONNECTION
	MECHANICAL CONNECTION (MJ)
	GATE VALVE (FL)
	BUTTERFLY VALVE (FL)
	PLUG VALVE
	CHECK VALVE (FL)
	FLANGED ADAPTOR (FL x MJ)
	SOLID SLEEVE (MJ)
	PIPE CAP (MJ)
	REDUCER (FL)

## SURVEY SURFACE FEATURES

EXISTING	ITEM
	PROPERTY LINE / ROW
	GOVERNMENT MEANDER LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	TOE OF BANK
	EDGE OF PAVEMENT
	BACK OF CURB
	BACK OF WALK
	SURVEY CONTROL POINT
	MONUMENT
	ROCK WALL
	CONCRETE WALL
	FENCE
	SIGN

## UNDERGROUND UTILITY PIPING

SYMBOL	SERVICE
	STORM DRAIN
	SAN. SEWER FORCE MAIN
	SEWER
	WATER
	TELEPHONE
	GAS
	POWER

**NOTE:**  
NOT ALL ITEMS SHOWN  
ON THIS SHEET ARE  
INCLUDED IN THE PLANS

## DETAIL & SECTION REFERENCE

	DETAIL NUMBER
	DRAWING NUMBER WHERE DETAIL IS LOCATED
	SECTION LETTER
	DRAWING NUMBER WHERE SECTION IS LOCATED

## SANITARY & STORM

EXISTING	ITEM
	UTILITY MANHOLE
	STORM DRAIN MANHOLE
	SANITARY SEWER MANHOLE
	CATCH BASIN
	CULVERT
	SANITARY SEWER
	STORM DRAIN
	SEWER FORCE MAIN

## WATER

EXISTING	ITEM
	WATER METER BOX
	FIRE HYDRANT
	GATE VALVE
	BUTTERFLY VALVE
	VALVE POST MARKER
	WATER MAIN
	RESERVOIR SENSING LINE
	TELEMETRY

## GAS, TELEPHONE & POWER

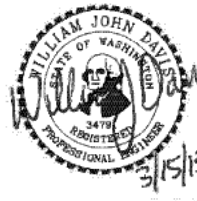
EXISTING	ITEM
	TELEPHONE VAULT/MANHOLE
	JUNCTION BOX
	UTILITY POLE
	UTILITY POLE ANCHOR
	TRAFFIC SIGNAL
	TELEPHONE LINE (BURIED)
	GAS LINE (BURIED)
	POWER LINE (BURIED)
	TELEMETRY

# GENERAL NOTES

- ELEVATIONS ARE CITY OF BREMERTON DATUM, WHICH IS NATIONAL ADJUSTED VERTICAL DATUM 1988 (NAVD88) PLUS 112.35 FEET. COORDINATES ARE TO HORIZONTAL NATIONAL ADJUSTED DATUM 1983/81 (NAD83/81).
- EXISTING TOPOGRAPHIC FEATURES SHOWN ARE BASED ON A FIELD SURVEY CONDUCTED BY AES CONSULTANTS DURING AUGUST 2012.
- HORIZONTAL ALIGNMENT IS BASED ON THE CONSTRUCTION BASE LINES SHOWN ON THE DRAWINGS. GENERALLY THE CONSTRUCTION BASE LINES ARE COINCIDENT WITH THE CENTERLINE OF THE PIPE.
- HORIZONTAL DIMENSIONS AND STATION OFFSETS ON PLAN AND PROFILE SHEETS TO PIPELINES, MANHOLES, AND OTHER FACILITIES ARE TO THE CENTERLINES OF THOSE FACILITIES UNLESS SPECIFICALLY NOTED OTHERWISE. INVERT ELEVATIONS IN MANHOLES AND OTHER STRUCTURES IDENTIFIED IN THE PLANS REFERS TO THE ELEVATIONS AT THE INVERT OF THE PIPE.
- THE CONTRACTOR SHALL MAINTAIN ALL SURVEY MONUMENTATION WITHIN PROJECT LIMITS. ALL DAMAGED MONUMENTS SHALL BE REPLACED AS REQUIRED BY THE CITY UNDER WAC 332-120.
- MANHOLES AND STRUCTURES ARE SHOWN ON THE PLANS SYMBOLICALLY. CONSTRUCT MANHOLES AND STRUCTURES AS SHOWN ON THE DETAILED DRAWINGS AND AS SPECIFIED.
- RIGHT-OF-WAY AND PROPERTY LINES ARE SHOWN APPROXIMATE ONLY.
- THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING WARNING SIGNS AND DEVICES TO SAFEGUARD THE GENERAL PUBLIC DURING WORKING AND NON-WORKING HOURS.
- GRADE SHOWN IN THE PROFILE IS ALONG THE CENTERLINE OF THE PIPE AND IS FOR BOTH EXISTING AND FINAL GRADE. THERE IS NO CHANGE IN GRADE.

## CONSTRUCTION NOTES

- MAINTAIN CONVEYANCE OF STORM DRAINAGE, SEWAGE FLOWS, AND WATER SERVICE DURING THE CONSTRUCTION. WHEN AN OUTAGE OR BYPASS IS REQUIRED IN ORDER TO CUT THE EXISTING PIPE AND MAKE A CONNECTION, THE CONTRACTOR SHALL NOTIFY THE CITY 72 HOURS AHEAD OF TIME. THE DURATION OF THE OUTAGE SHALL BE LIMITED AND AGREED UPON WITH THE OWNER PRIOR TO THE ACTUAL WORK.
- NEARLY ALL WORK OCCURS BELOW THE ORDINARY HIGH WATER MARK (OHWM). PLAN AND EXPECT TO DEWATER THE TRENCH DUE TO TIDAL INFLUENCE. SUPPLY AND MAINTAIN ALL EQUIPMENT FOR PUMPING WATER FROM THE TRENCH TO OBTAIN A DRY, STABLE BOTTOM FOR INSTALLING THE NEW PIPE. ALL COSTS FOR DEWATERING THE TRENCH SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS. REFERENCE SECTION 7-08.3(1)D FOR ADDITIONAL INFORMATION ON CONTROL OF WATER.
- SURVEY AND FIELD STAKE ALL ALIGNMENTS PRIOR TO EXCAVATION. SUBMIT RECORD DRAWINGS BASED ON FIELD SURVEY UPON COMPLETION OF PROJECT.
- THE LOCATION AND DEPTH OF EXISTING SEWER PIPING AND SIDE SEWER CONNECTIONS ARE NOT KNOWN WITH CERTAINTY. POTHOLE TO VERIFY PRIOR TO WORK AT THAT LOCATION IN ACCORDANCE WITH SECTION 7-08.3(5).
- UTILITY CROSSINGS ARE GENERALLY SHOWN ON THE PLAN AND PROFILE DRAWINGS WHEN KNOWN. IF DEPTH IS NOT SHOWN, THE OWNER MAY DIRECT THE CONTRACTOR TO POTHOLE THE UTILITY TO CONFIRM THE ELEVATION PRIOR TO CONSTRUCTION.
- VERIFY LOCATIONS, ELEVATIONS, LENGTHS, DIAMETERS, MATERIALS, STRUCTURE TYPES, AND OTHER PARAMETERS OF EXISTING FACILITIES TO WHICH NEW STRUCTURES/PIPING WILL CONNECT BEFORE ORDERING MATERIALS.
- SPECIAL CONSTRUCTION CONSTRAINTS, SEQUENCES, AND COORDINATION WITH THE OWNER ARE DISCUSSED IN SPECIAL PROVISION SECTIONS 1-08.0(6) AND 7-08, AND 7-17.
- OVERHEAD UTILITY CABLES (E.G. POWER, CABLE, ETC) ARE GENERALLY NOT SHOWN. DETERMINE THE EXTENT OF HAZARDS OR IMPACTS ON CONSTRUCTION ACTIVITIES DURING THE BIDDING PROCESS AND PRIOR TO MOBILIZATION. FOLLOW LAWFUL AND SAFE PROCEDURES DURING CONSTRUCTION FOR WORKING AROUND OVERHEAD POWER. COORDINATE WITH THE RESPECTIVE FRANCHISE UTILITY (I.E. GAS, CABLE, POWER, TELEPHONE) FOR LOCATING PIPING OR CONDUIT.
- NOT ALL BUILDINGS ARE SHOWN ON THE PLAN SHEETS. THE CONTRACTOR IS RESPONSIBLE FOR WALKING THE PROJECT AREA TO CONFIRM POTENTIAL OBSTRUCTIONS.
- WITHOUT EXCEPTION, ALL PIPE JOINTS SHALL BE RESTRAINED. REFERENCE SECTION 7-17.



NO.	DESCRIPTION	DATE	BY

0	1"	2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY		
SCALE		
HORIZ. N/A	VERT. N/A	

FIELD BOOK
DRAWING NO.

## CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

DRAWN BY: TH  
DATE 3/13

DESIGN BY: WJD  
WASH. P.E. # 34791 DATE 3/13

CHECKED BY: NL  
WASH. P.E. # 30749 DATE 3/13

## EASTSIDE BEACH MAIN REPLACEMENT LEGEND, NOTES, AND ABBREVIATIONS

G2  
SHEET  
2  
OF  
15

PIPE CENTERLINE CONTROL POINTS AND ELEVATIONS				
STATION	NORTHING	EASTING	SURFACE	PIPE IE
1+00	1194867.80	217588.02	119.90	113.23
1+75	1194940.24	217568.59	119.90	112.93
2+50	1195013.95	217555.46	119.20	112.63
3+25	1195088.50	217547.18	119.00	112.33
4+25	1195188.01	217537.36	118.40	111.08
4+75	1195237.86	217537.36	117.70	110.46
5+25	1195287.70	217530.65	116.30	109.40
5+75	1195336.35	217520.36	116.20	108.32
6+25	1195378.10	217500.06	113.30	107.24
6+75	1195417.60	217469.53	114.40	106.77
7+25	1195458.20	217443.71	114.80	106.91
7+75	1195507.14	217428.68	115.40	107.06
8+25	1195555.92	217417.67	119.90	107.20
8+75	1195605.23	217409.41	116.30	107.34
9+50	1195679.02	217395.92	115.00	107.55
10+50	1195777.80	217380.36	115.10	107.84
11+50	1195877.23	217370.39	114.90	108.12
12+50	1195977.19	217371.29	115.80	108.41
13+25	1196052.02	217376.00	114.90	108.62
14+00	1196126.69	217377.35	114.60	108.84
14+75	1196200.53	217368.46	115.10	109.39
15+25	1196250.78	217362.76	116.90	110.23
15+75	1196300.15	217354.87	120.00	111.07
16+25	1196346.42	217238.08	120.50	111.92
18+25	1196529.61	217257.84	118.70	112.88
19+00	1196600.60	217233.73	121.50	114.33
19+75	1196674.21	217220.12	118.30	112.05
20+50	1196746.57	217200.41	116.20	110.06
21+25	1196818.54	217179.37	114.90	109.34
22+00	1196889.38	217154.75	114.80	109.06
23+00	1196983.22	217120.19	115.10	108.67
24+00	1196076.35	217083.94	114.80	108.29
25+00	1197166.13	217039.91	114.70	107.92
26+00	1197255.16	216994.68	114.40	107.62
27+00	1197341.59	216944.58	115.10	107.16
27+50	1197384.13	216918.26	115.20	106.97
28+00	1197449.72	216882.09	115.20	106.77
29+00	1197514.77	216844.76	115.20	108.17
29+75	1197579.38	216806.80	115.90	109.05
30+50	1197639.87	216762.46	115.90	109.56
30+82	1197665.00	216743.55	116.20	109.80

EXISTING SURVEY CONTROL POINTS		
NUMBER	NORTHING	EASTING
6	1194833.49	217579.41
7	1195853.88	217276.60
8	1195587.24	217276.08
9	1195332.75	217628.77
10	1195280.66	217417.69
11	1196274.49	217338.72
12	1194585.77	217556.08
13	1194411.52	217598.59
14	1194047.14	217721.27
15	1197219.30	216957.76
16	1193701.32	217920.24

#### SURVEY NOTES

1. THE CONTRACTOR SHALL MAINTAIN ALL MONUMENTATION WITHIN THE PROJECT LIMITS. MONUMENTS THAT MAY BE DESTROYED BY CONSTRUCTION SHALL BE REFERENCED AND IF DESTROYED SHALL BE RESET PURSUANT TO RCW SECTION 58.09.13 AND 332.130.030.
2. MONUMENT LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE PLANS MAY NOT INCLUDE ALL MONUMENTS. FIELD LOCATION OF MONUMENTS AND REFERENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CITY WILL PROVIDE RECORDS OF SURVEY TO THE CONTRACTOR AFTER CONTRACT AWARD.
3. REPLACEMENT MONUMENTS SHALL BE BRASS CAP IN CASE. PROVIDE SUBMITTAL OF PROPOSED PRIOR TO INSTALLATION.
4. AN ELECTRONIC COPY OF THE AUTOCAD DRAWING FOR THE PLAN AND SURVEY FROM AES CONSULTANTS (JULY 2012) WILL BE FURNISHED TO THE CONTRACTOR UPON REQUEST TO ASSIST IN LAYING OUT PIPE ALIGNMENT.

#### HORIZONTAL CONTROL:

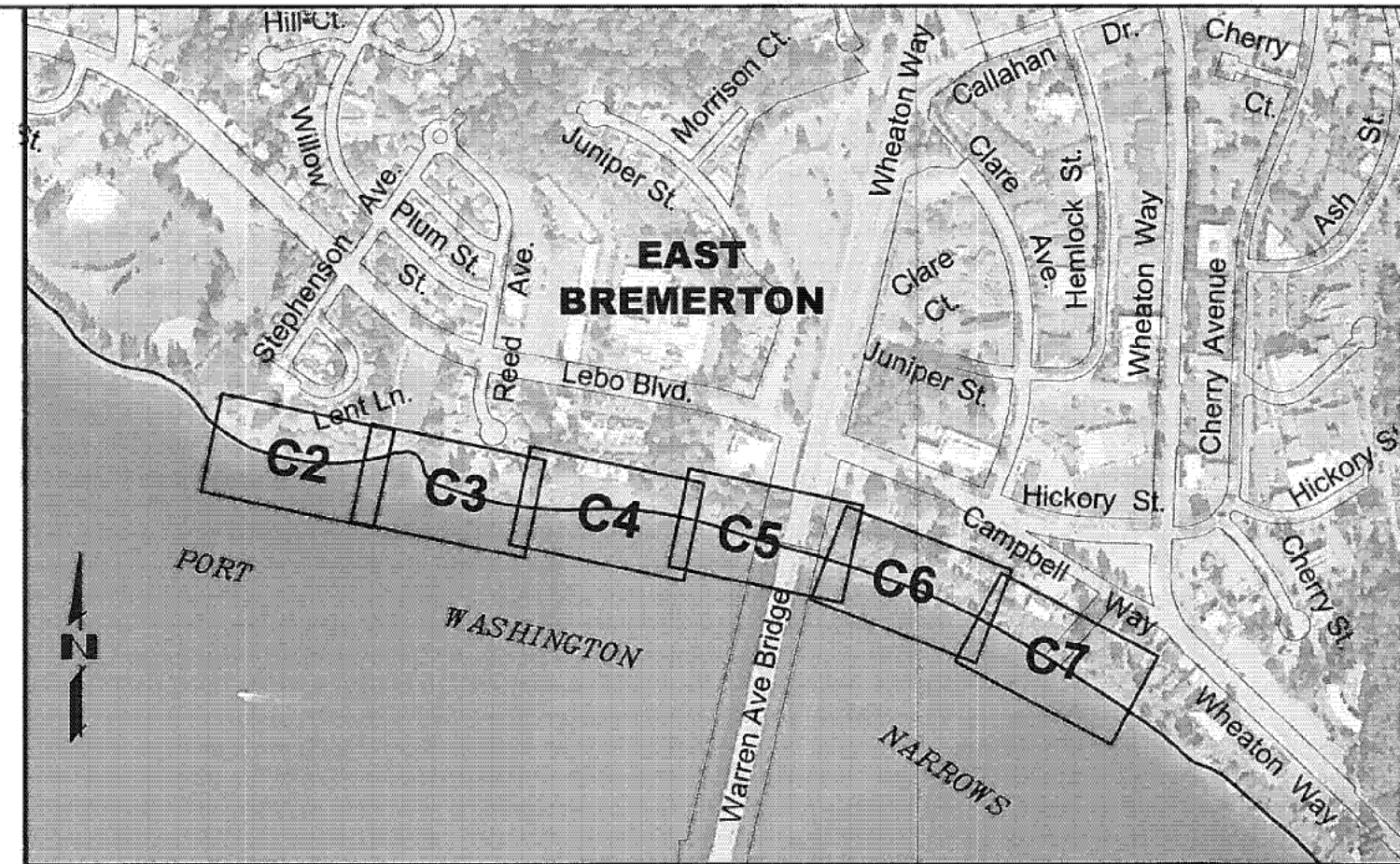
WASHINGTON STATE PLANE, NORTH NAD 83 (03)

PT #2: SET ½" REBAR WITH RED I.D. CAP IMPRINTED "CONTROL 20795" IN LIONS PARK +/- 180' WEST OF EASTSIDE TREATMENT PLANT, 19.5' SE OF SE CORNER OF CONCRETE PAD FOR BENCH, 1.0' NORTH OF 4' DIAMETER BOULDER.

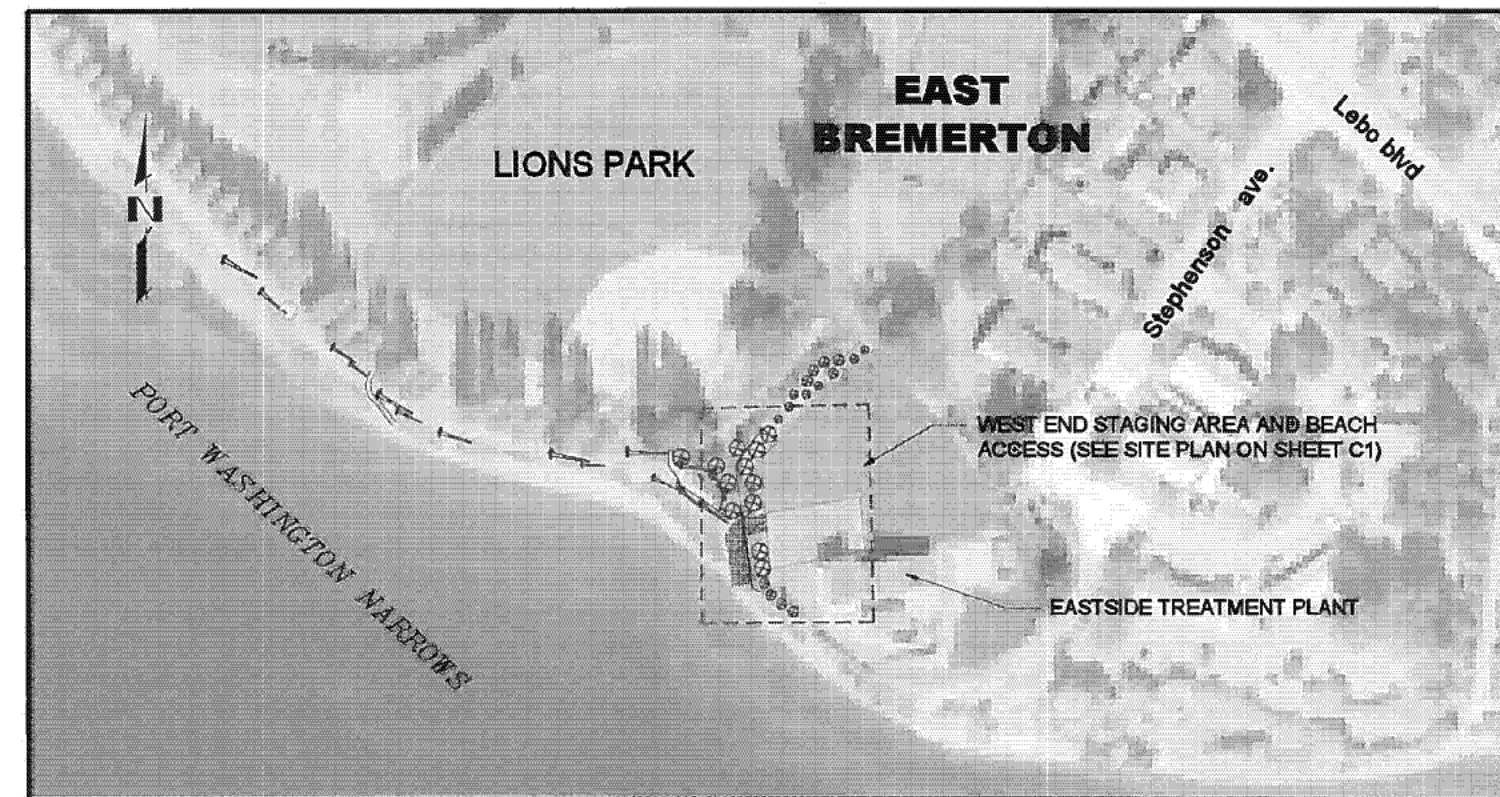
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PT #9: SET ½" REBAR WITH RED I.D. CAP IMPRINTED "CONTROL 20795" IN LENT PARK, 34' NORTH OF STAIRS TO BEACH, 23' WEST OF SEWER MH, 4.5' WEST OF CONCRETE SIDEWALK.

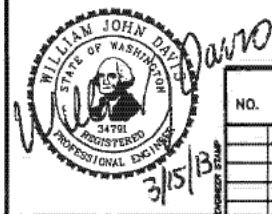
N: 217628.7744, E: 1195332.7541, ELEV = 130.36 (COB DATUM)



PLAN AND PROFILE SHEET INDEX



WEST END STAGING AREA AND BEACH ACCESS



REVISIONS			
NO.	DESCRIPTION	DATE	BY

0	1"	2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY		
SCALE		
HORIZ. N/A	VERT. N/A	

FIELD BOOK

CITY OF BREMEROTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION	
DRAWN BY: JH	DESIGN BY: WJD
DATE 3/13	WASH. P.E. # 34791 DATE 3/13

CHECKED BY: NL	WASH. P.E. # 30749 DATE 3/13
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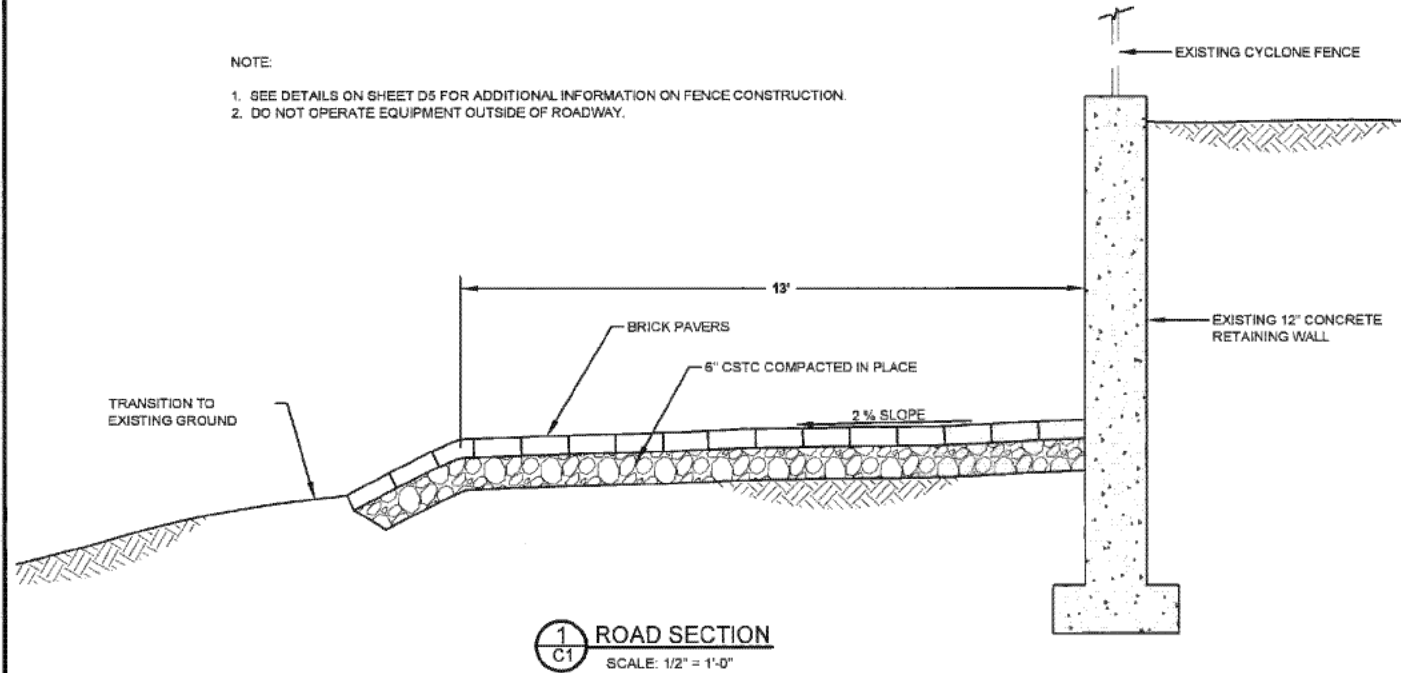
EASTSIDE BEACH MAIN REPLACEMENT SHEET INDEX AND SURVEY CONTROL	
PN: 5325	G3 SHEET 3 OF 15

EAST SIDE BEACH MAIN REPLACEMENT



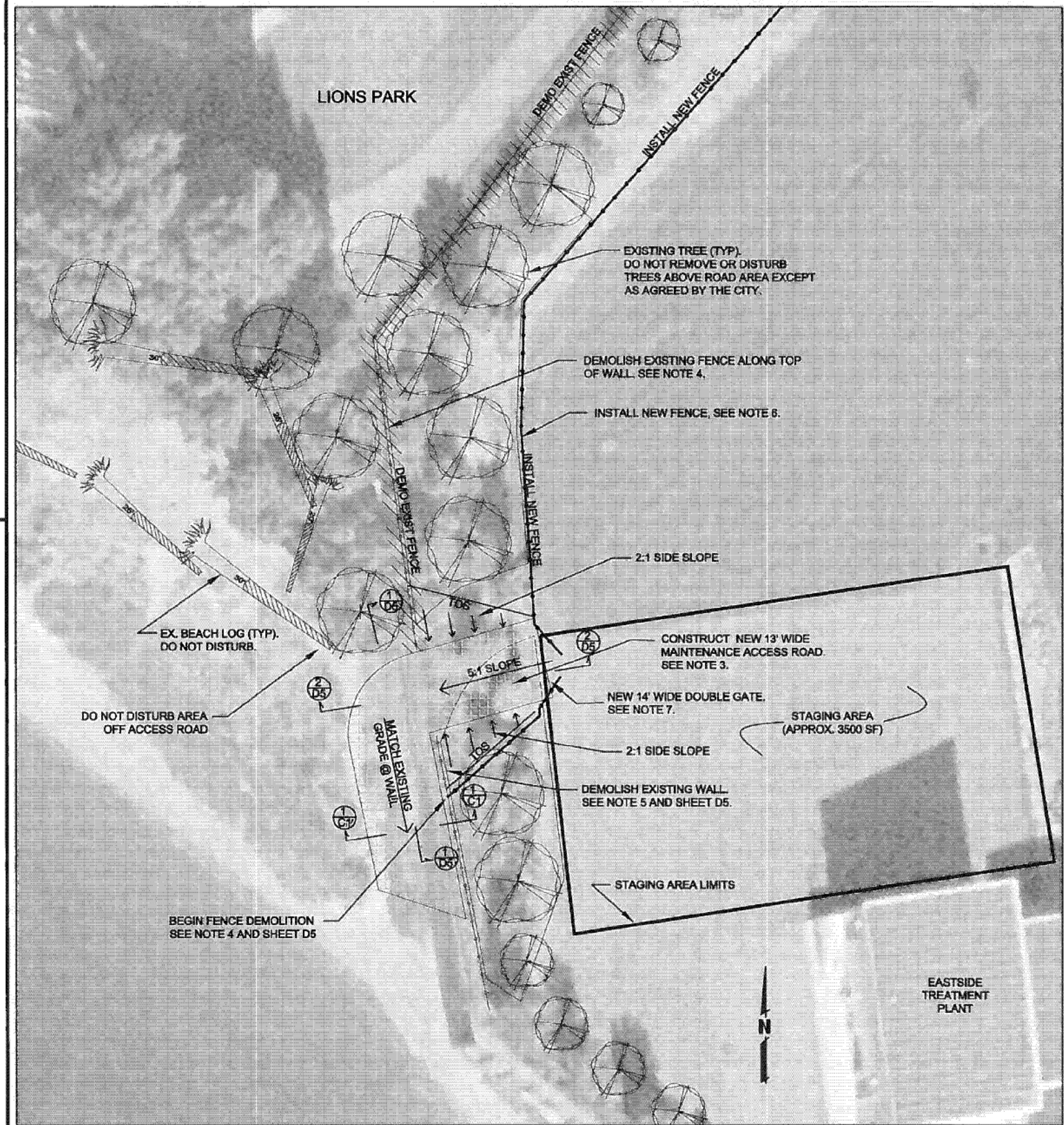
NOTE:

1. SEE DETAILS ON SHEET D5 FOR ADDITIONAL INFORMATION ON FENCE CONSTRUCTION.
2. DO NOT OPERATE EQUIPMENT OUTSIDE OF ROADWAY.



NOTES:

1. THE WEST END STAGING AREA IS LOCATED AT THE BASE OF THE EASTSIDE TREATMENT PLANT IN EAST BREMERTON. THE SITE ADDRESS IS 2475 STEPHENSON AVENUE, BREMERTON, WA 98310. THE STAGING AREA IS APPROX. 3500 SF OF ASPHALT. SITE ACCESS IS THROUGH THE GATE ON STEVENSON COURT. CONTRACTOR MAY USE SITE FOR STORAGE OF ALL EQUIPMENT AND MATERIALS, AS WELL AS BEACH ACCESS AFTER ROAD IS CONSTRUCTED.
2. DAMAGED ASPHALT IN STAGING AREA SHALL BE SAWCUT, REMOVED AND PATCHED WITH 3" THK ASPHALT OVER 6" THK CRUSHED GRAVEL.
3. CONSTRUCT 13' WIDE X 65' LONG THICK ACCESS ROAD AS SHOWN. ROAD SURFACING INSIDE WALLED AREA SHALL BE PERMEABLE BALLAST. TRANSITION TO PAVERS OVER CSTC AT WALL AND CONTINUE TO BEACH AS SHOWN ON THE PLANS. CONTRACTOR MAY PLACE TEMPORARY SURFACE CONSISTING OF 2"-4" QUARRY SPALLS OR PERMEABLE BALLAST AND DELAY PLACEMENT OF PAVERS UNTIL PROJECT COMPLETION. ANY ROCK DRAGGED ON THE BEACH FROM EQUIPMENT SHALL BE REMOVED DAILY AT THE DIRECTION OF THE ENGINEER.
4. DEMOLISH EXISTING 6' HIGH FENCE WITH BARBED WIRE AND POSTS (250 LF), STARTING AT ACCESS ROAD. OWNER WILL MARK LIMITS OF FENCE REMOVAL IN THE FIELD. FILL POST HOLES IN TOP OF WALL WITH CONCRETE.
5. SAW CUT AND REMOVE EXISTING CONCRETE WALL AS SHOWN ON THE PLANS TO CONSTRUCT ACCESS ROAD. EXISTING WALL IS 12" THICK. REMOVE TO MINIMUM 12" BELOW SURFACE OF NEW ACCESS ROAD. ESTIMATED 200 SF OF WALL SURFACE SCHEDULED FOR REMOVAL. GRIND AND GROUT CUT EDGE OF WALL SMOOTH.
6. CONTRACTOR TO INSTALL 210 LN FT OF NEW 6' HIGH FENCE WITH 18" HIGH SECURITY WIRE. MATCH EXISTING FENCE FOR DIMENSIONS AND STYLE. FOR MATERIALS AND CONSTRUCTION DETAILS, REFERENCE WSDOT STANDARD PLANS "L" SECTION AND STANDARD SPECIFICATIONS SECTION 9-16 FOR TYPE 3 FENCE AND GATE.
7. DOUBLE GATE SHALL BE 14' WIDE X 6' HIGH WITH 18" HIGH SECURITY WIRE. REFERENCE STANDARD SPECIFICATIONS SECTION 9-16.1(1)E FOR GATE CONSTRUCTION AND MATERIALS. PROVIDE WITH DROP-BAR LOCKING DEVICE.
8. TO PREVENT THEFT AND VANDALISM BEFORE ERECTION OF NEW FENCE, AFTER WALL REMOVAL PLACE TEMPORARY 6' HIGH SECURITY FENCE AROUND STAGING AREA AND AT SITE AS NEEDED TO COMPLETELY ENCLOSE ETP SITE.



SITE PLAN  
SCALE: 1" = 10'-0"

CITY OF BREMERTON  
DEPARTMENT OF PUBLIC WORKS & UTILITIES  
ENGINEERING DIVISION

EAST SIDE BEACH MAIN REPLACEMENT  
WEST END STAGING AREA  
AND BEACH ACCESS ROAD

C1  
SHEET

4  
OF  
15

PN: 5325

NO.	REVISIONS DESCRIPTION	DATE	BY

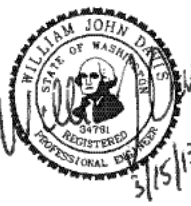
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SCALE		
HORIZ. NOTED	VERT. NOTED	

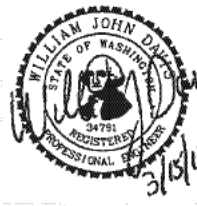
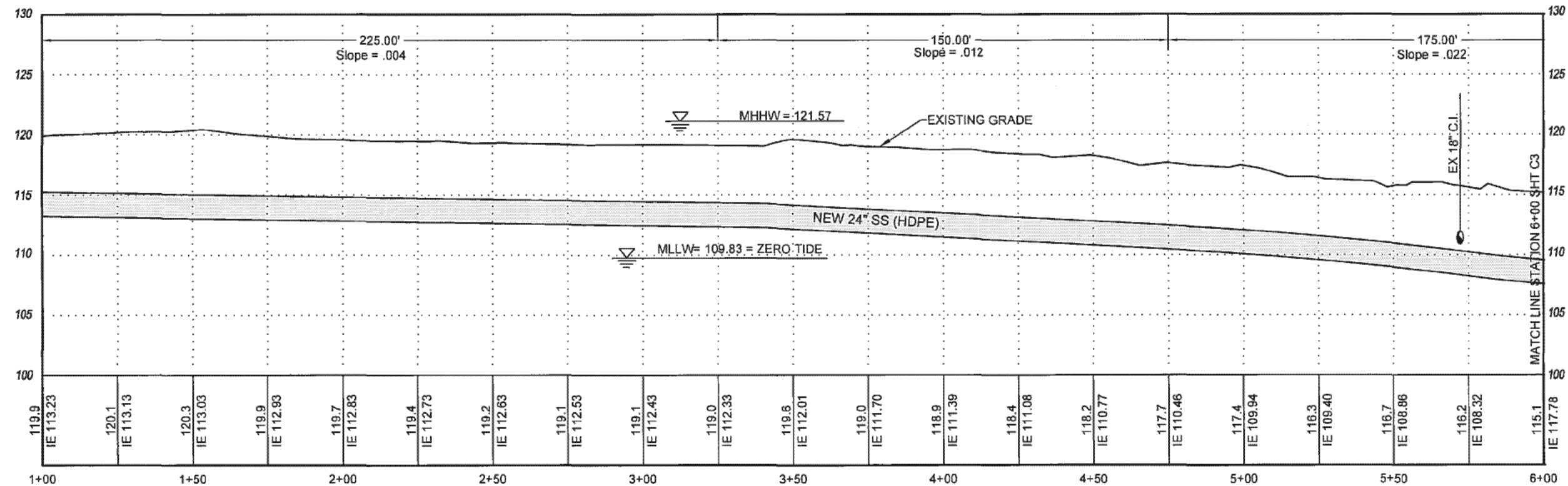
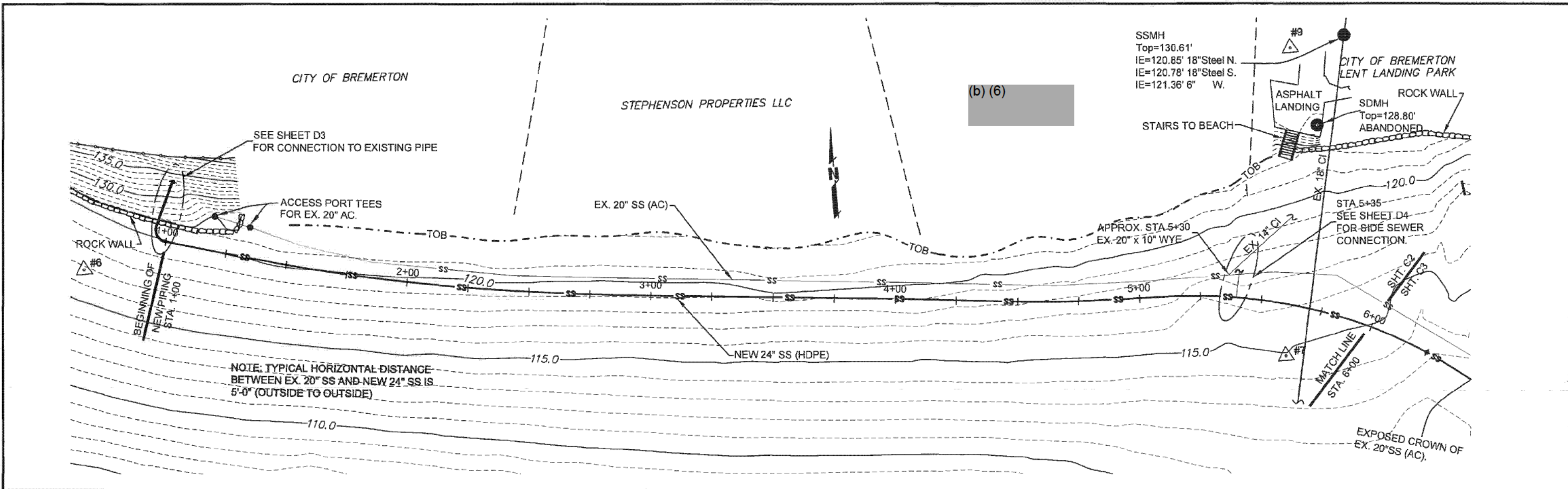
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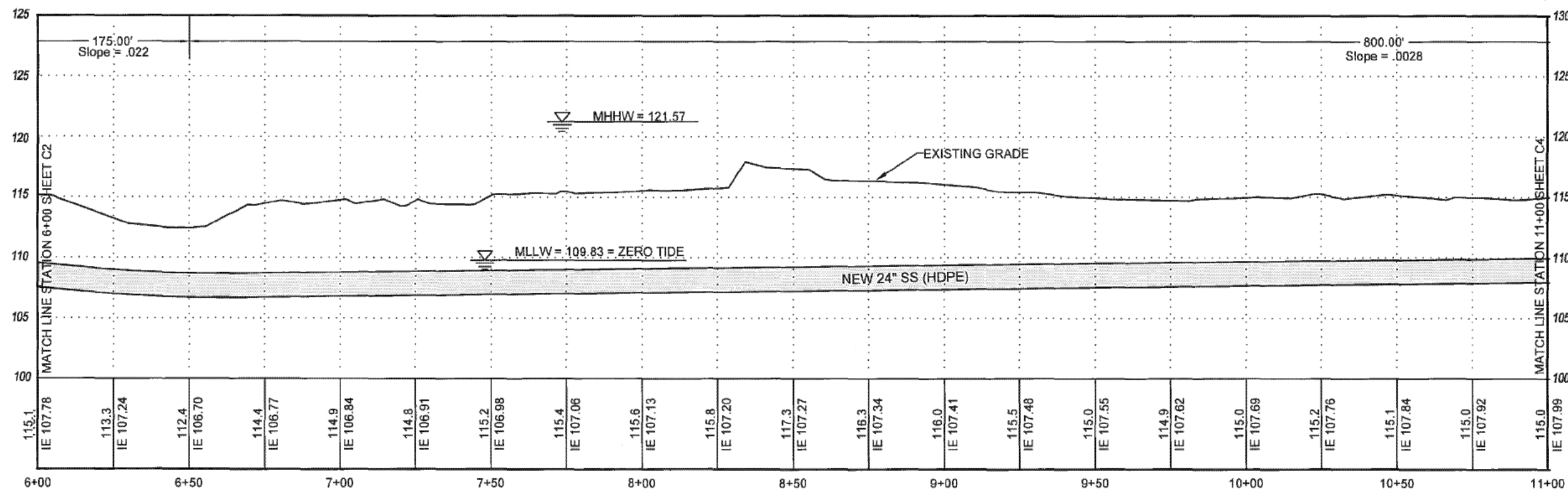
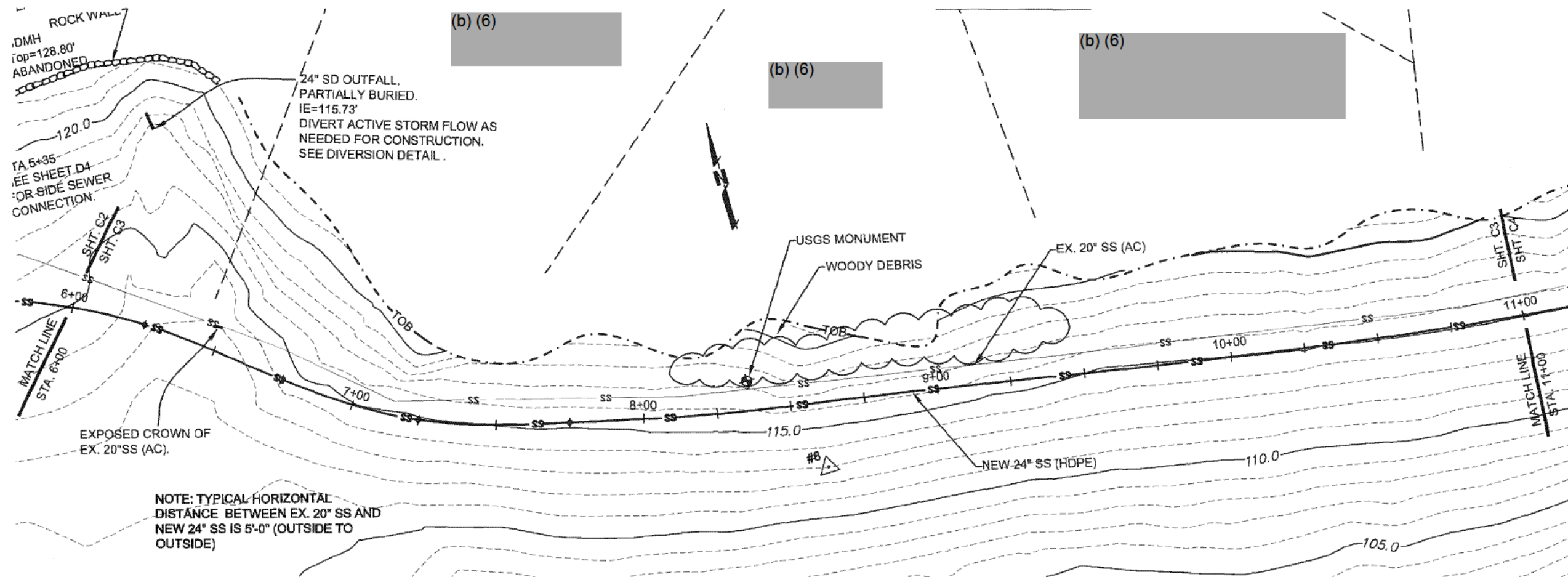
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TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY		
SCALE		
HORIZ. 1" = 20'	VERT. 1" = 5'	

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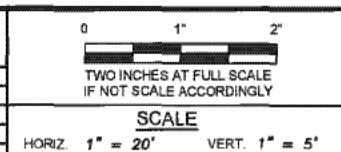
**EASTSIDE BEACH MAIN REPLACEMENT  
PLAN AND PROFILE  
STATION 1+00 TO STATION 6+00**

**C2**  
SHEET  
5  
OF  
15  
PN: 5325





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NO.	DESCRIPTION	DATE	BY



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ENGINEERING DIVISION

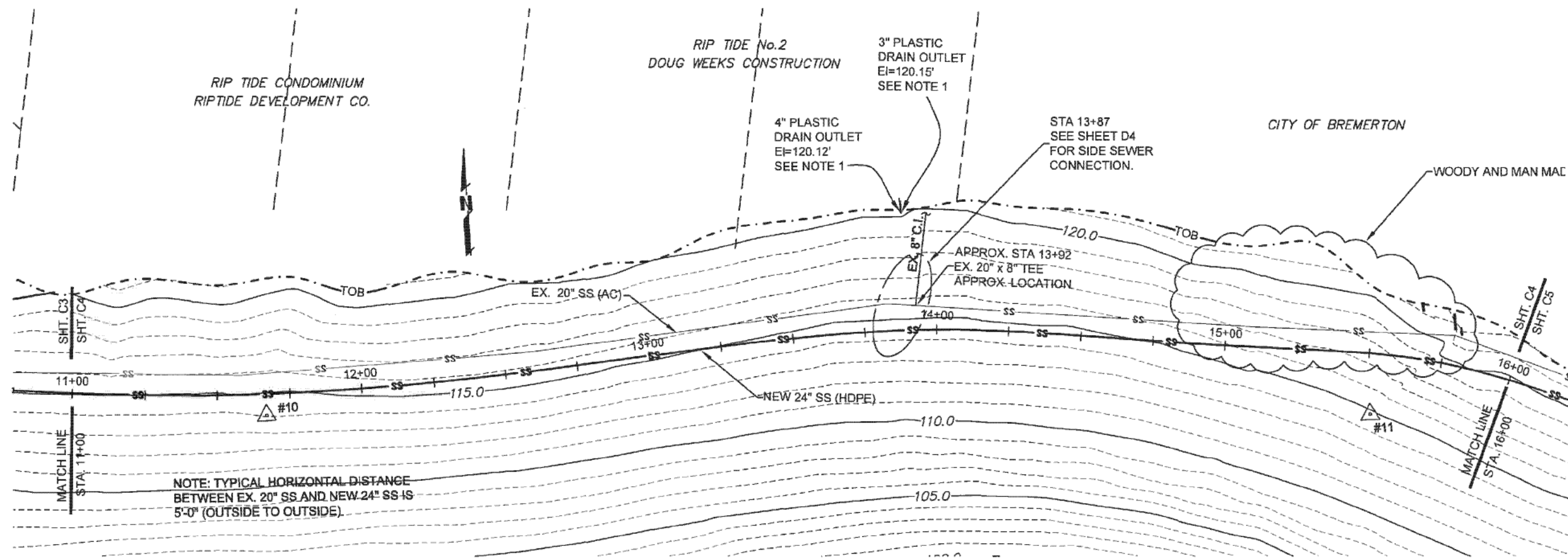
DESIGN BY: WJD  
WASH. P.E. # 34791 DATE 3/13

CHECKED BY: NL  
WASH. P.E. # 30749 DATE 3/13

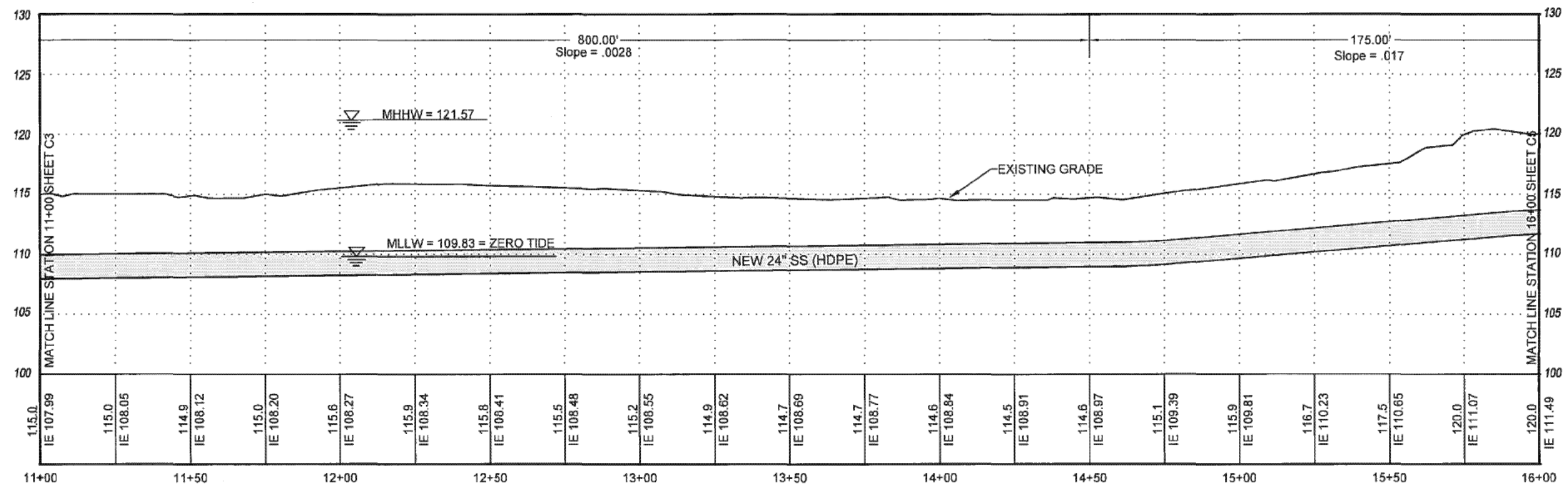
**EASTSIDE BEACH MAIN REPLACEMENT**  
**PLAN AND PROFILE**  
**STATION 6+00 TO STATION 11+00**

PN: 5325

**C3**  
SHEET  
6  
OF  
15



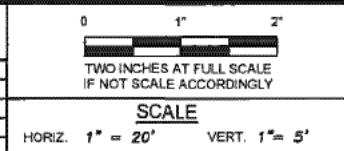
NOTE:  
1. PROTECT DRAIN PIPE OUTLET DURING CONSTRUCTION. DRAIN CONVEYS SURFACE WATER FROM UP SLOPE APARTMENT COMPLEX.



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REVISIONS			
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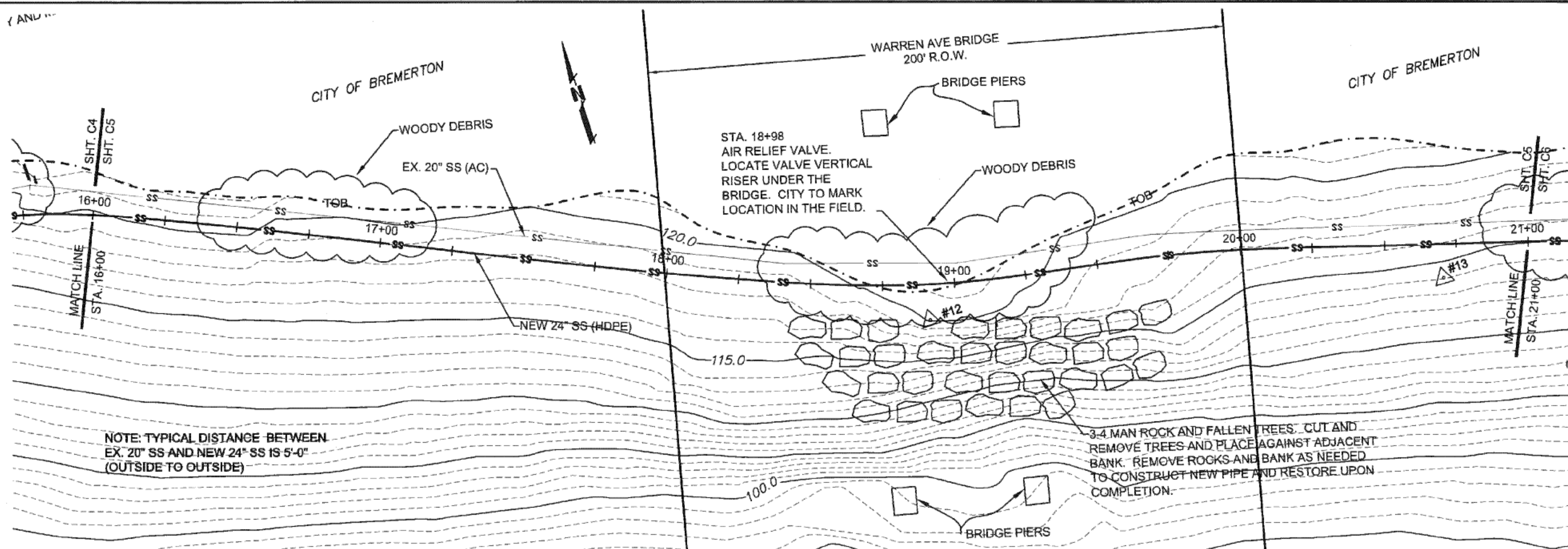


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DATE 3/13	WASH. P.E. # 34791 DATE 3/13	WASH. P.E. # 30749 DATE 3/13	

**EASTSIDE BEACH MAIN REPLACEMENT**  
**PLAN AND PROFILE**  
**STATION 11+00 TO STATION 16+00**

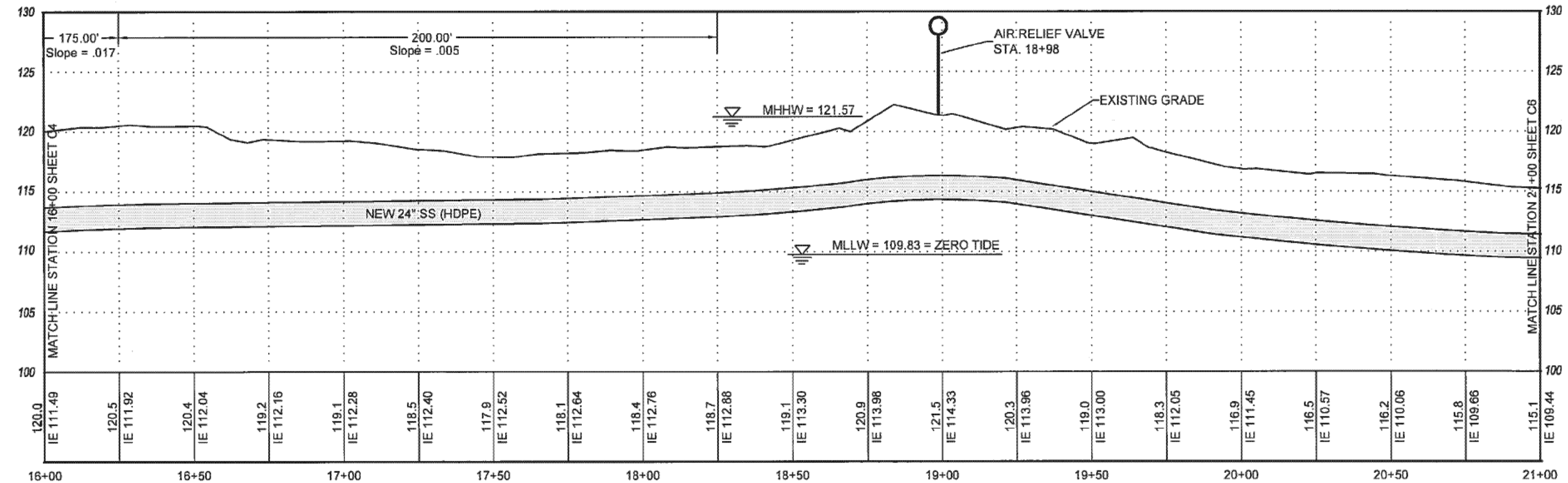
**C4**  
 SHEET  
 7  
 OF  
 15  
 PN 5325

EASTSIDE SEWER BEACH MAIN

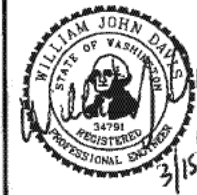


NOTE: TYPICAL DISTANCE BETWEEN  
EX. 20" SS AND NEW 24" SS IS 5'-0"  
(OUTSIDE TO OUTSIDE)

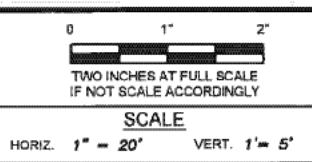
3-4 MAN ROCK AND FALLEN TREES. CUT AND  
REMOVE TREES AND PLACE AGAINST ADJACENT  
BANK. REMOVE ROCKS AND BANK AS NEEDED  
TO CONSTRUCT NEW PIPE AND RESTORE UPON  
COMPLETION.



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REVISIONS			
NO.	DESCRIPTION	DATE	BY



FIELD BOOK  
  
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DEPARTMENT OF PUBLIC WORKS & UTILITIES  
ENGINEERING DIVISION

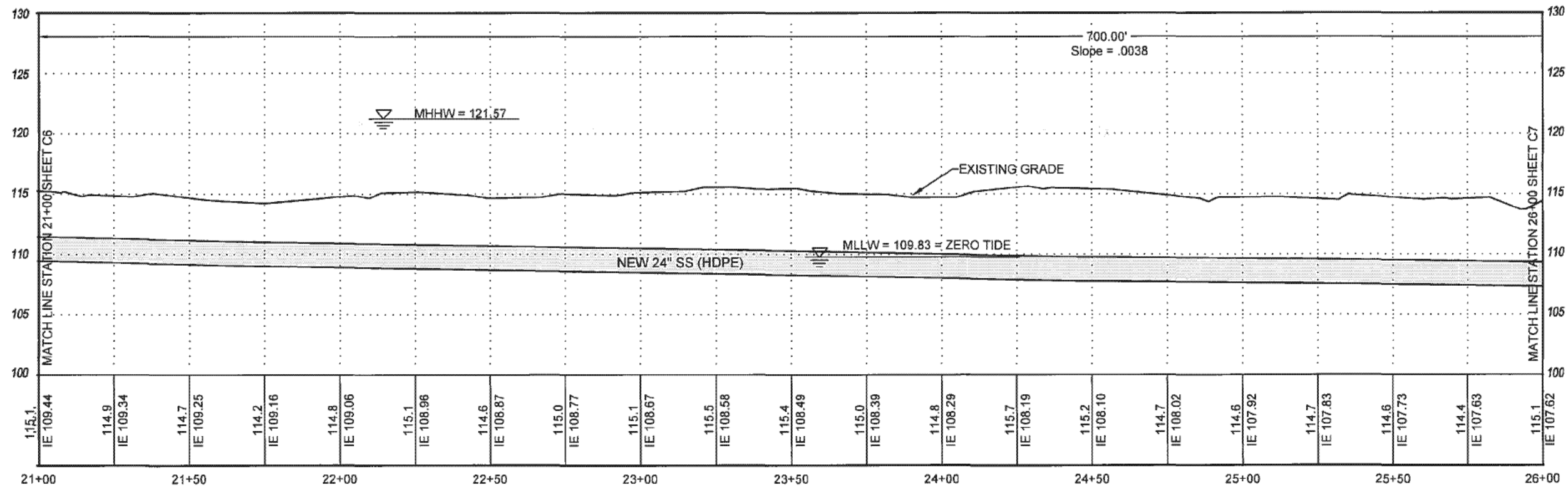
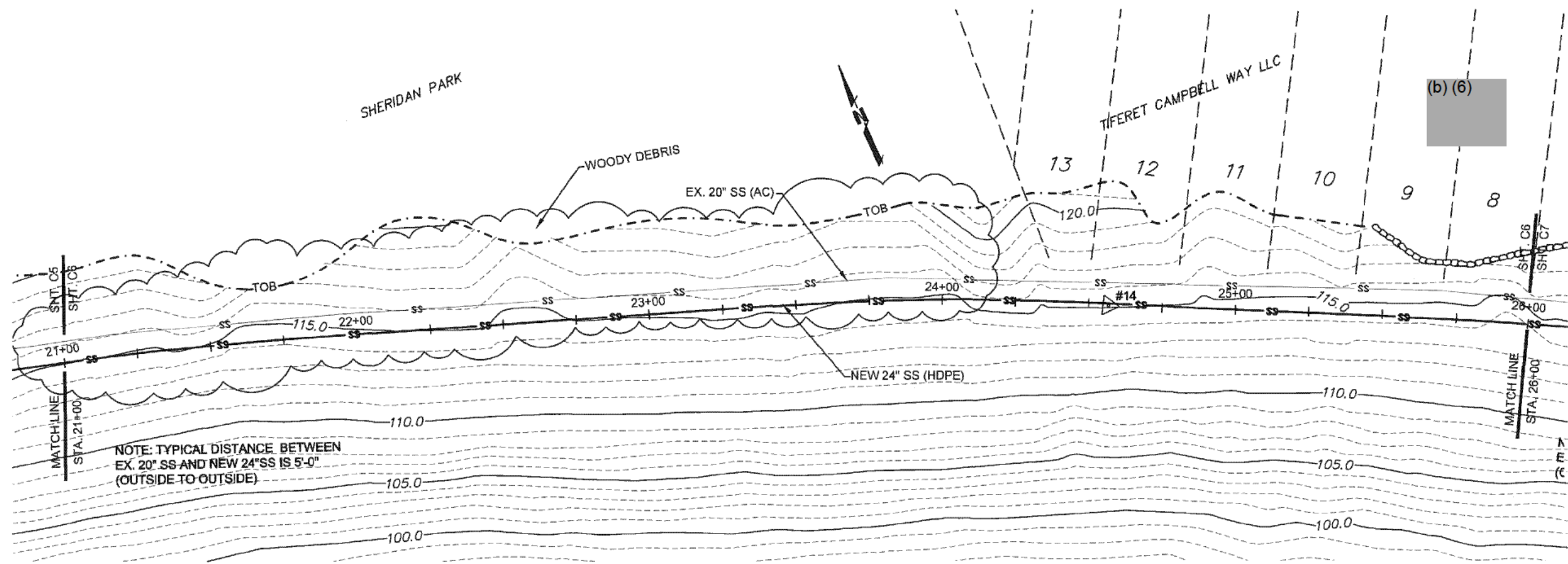
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**EASTSIDE BEACH MAIN REPLACEMENT  
PLAN AND PROFILE  
STATION 16+00 TO STATION 21+00**

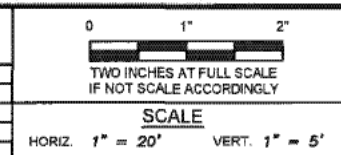
PN: 5325  
  
C5  
SHEET  
8  
OF  
15



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REVISIONS			
NO.	DESCRIPTION	DATE	BY



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**DEPARTMENT OF PUBLIC WORKS & UTILITIES**  
**ENGINEERING DIVISION**

DESIGN BY: WJD  
WASH. P.E. # 34791 DATE 3/13

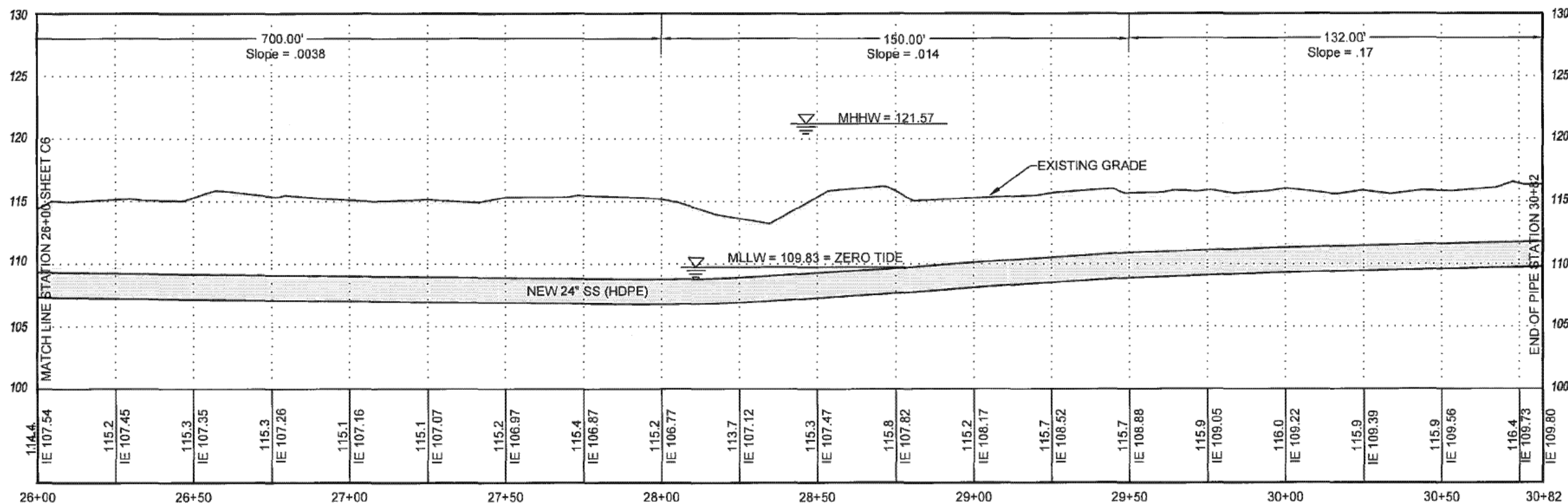
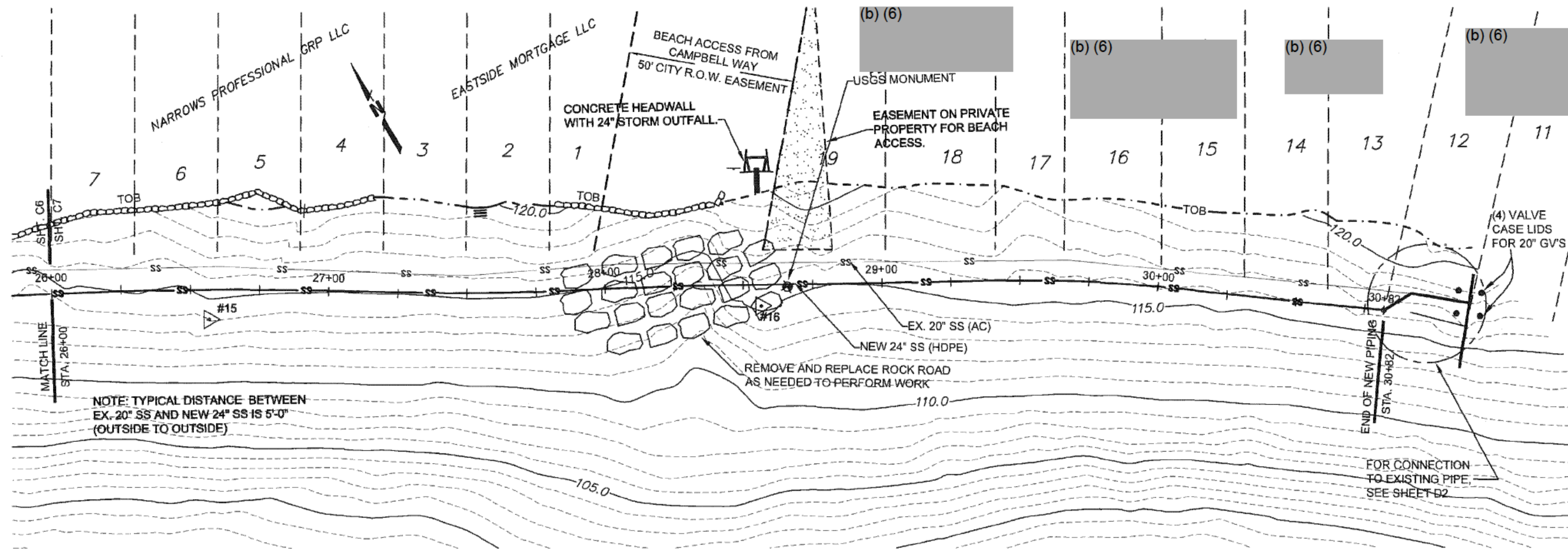
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WASH. P.E. # 30749 DATE 3/13

**EASTSIDE BEACH MAIN REPLACEMENT**  
**PLAN AND PROFILE**  
**STATION 21+00 TO STATION 26+00**

PN: 5325

**C6**  
SHEET  
9  
OF  
15

EASTSIDE SEWER BEACH MAIN



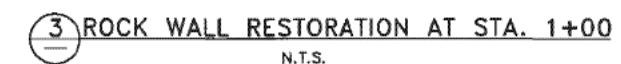
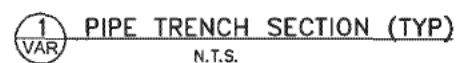
REVISIONS			
NO.	DESCRIPTION	DATE	BY

0	1"	2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY		
SCALE		
HORIZ. 1" = 20'	VERT. 1" = 5'	

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EASTSIDE BEACH MAIN REPLACEMENT PLAN AND PROFILE STATION 26+00 TO STATION 30+82	
PN 5325	C7 SHEET 10 OF 15

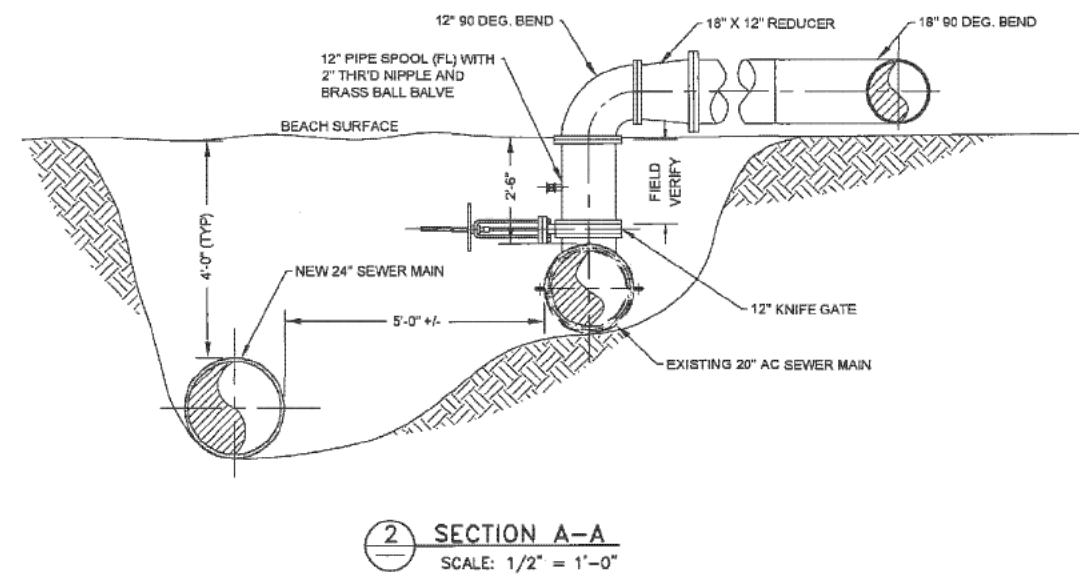
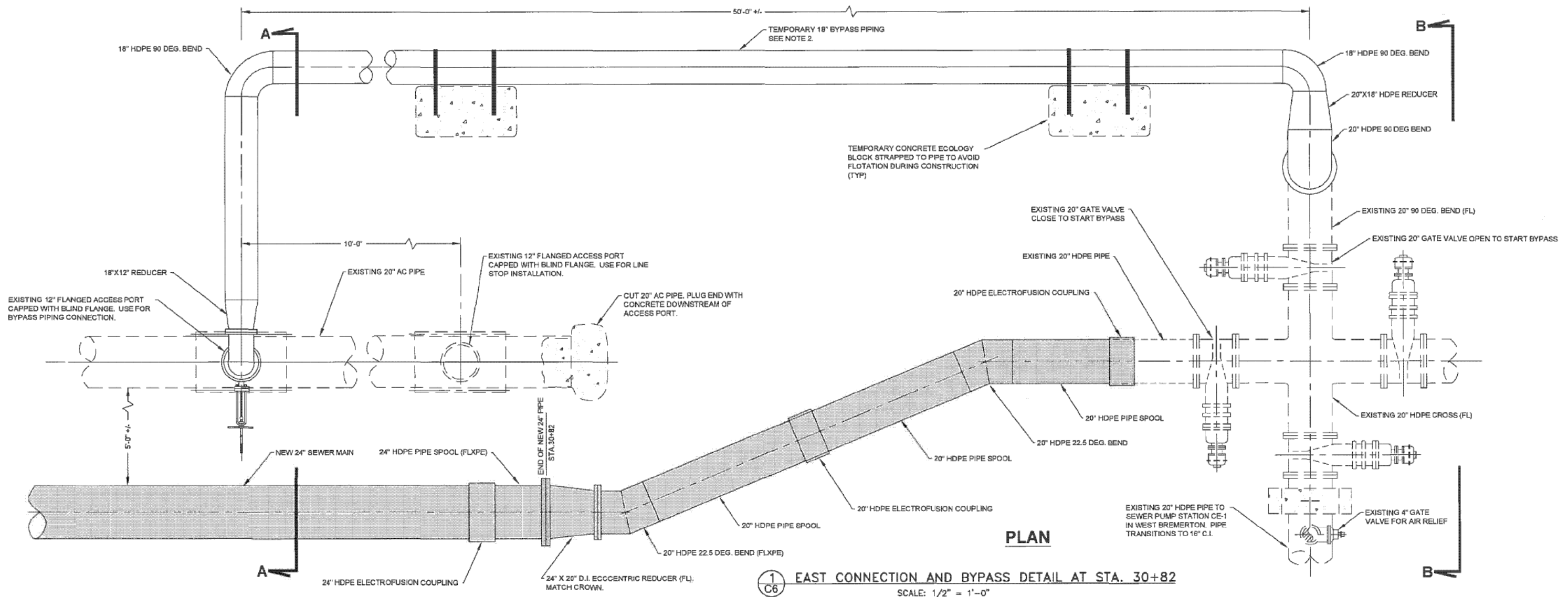




4 2" AIR RELEASE VALVE ASSEMBLY  
VAR N.T.S.

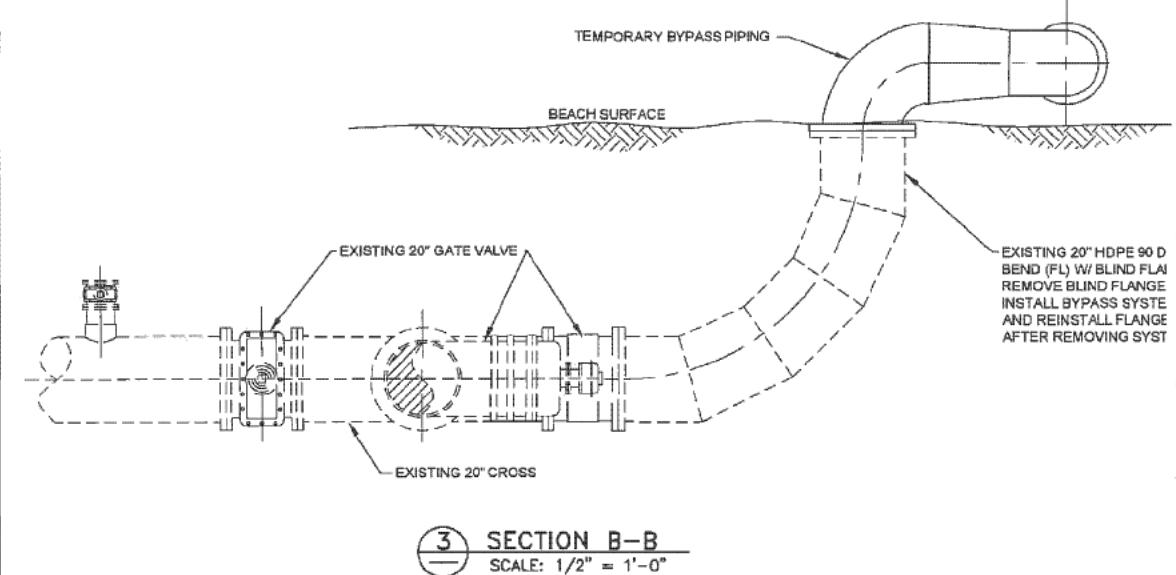






#### NOTES:

1. TWO 12" FLANGED ACCESS PORTS ARE LOCATED ON THE EXISTING 20" AC PIPE. THESE PORTS WERE TAPPED AND PREVIOUSLY USED FOR A LINESSTOP/ BYPASS OPERATION IN 2005 AND CONTAIN LINE STOP DISCS. THE LINE PRESSURE AT THIS LOCATION DOES NOT EXCEED 3 PSI DURING DRY WEATHER.
2. INSTALL 18" TEMPORARY BYPASS PIPING FROM UPSTREAM 12" FLANGED ACCESS PORT TO 20" HDPE FLANGED ELBOW. BYPASS PIPING MUST BE FULLY OPERATIONAL BEFORE EXISTING 20" A.C. MAIN CAN BE CUT. PIPING SHALL BE FULLY RESTRAINED, PRESSURE-RATED FOR 100 PSI MIN., AND TIED DOWN TO PREVENT FLOTATION BY TIDE. PIPE MATERIAL MAY BE HDPE, DUCTILE IRON OR AWWA C905. REFERENCE SECTION 7-17.3(1) FOR MORE DESCRIPTIVE REQUIREMENTS ASSOCIATED WITH THE TEMPORARY BYPASS SYSTEM, INCLUDING WORK SEQUENCE.
3. PRIOR TO CUTTING AND WELDING HDPE FITTINGS, EXPOSE EXISTING PIPE AND OBTAIN MEASUREMENTS TO MAKE CONNECTION.
4. INSTALL LINE STOP ASSEMBLY AT DOWNSTREAM EX 12" FLANGED ACCESS PORT. INSERT LINE STOP WHEN REQUIRED TO STOP AND DIVERT FLOW THROUGH THE TEMPORARY BYPASS PIPING. PROTECT LINE STOP ASSEMBLY AND CONNECTION AT ALL TIMES.
5. TO PREVENT THERMAL EXPANSION OF THE HDPE PIPE, KEEP BURIED AND SHADE PIPE IF MORE THAN 15' EXPOSED TO DIRECT SUNLIGHT.
6. MAKING THE CONNECTION WILL REQUIRE CUTTING THE 20" AC PIPE. REFERENCE SECTION 1-07.29 FOR CUTTING AND HANDLING OF AC PIPE.



REVISIONS	DESCRIPTION	DATE	BY
1	24" NEW 24" SEWER MAIN	3/13	WJD

0	1	2
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY		
SCALE		
HORIZ. N/A	VERT. N/A	

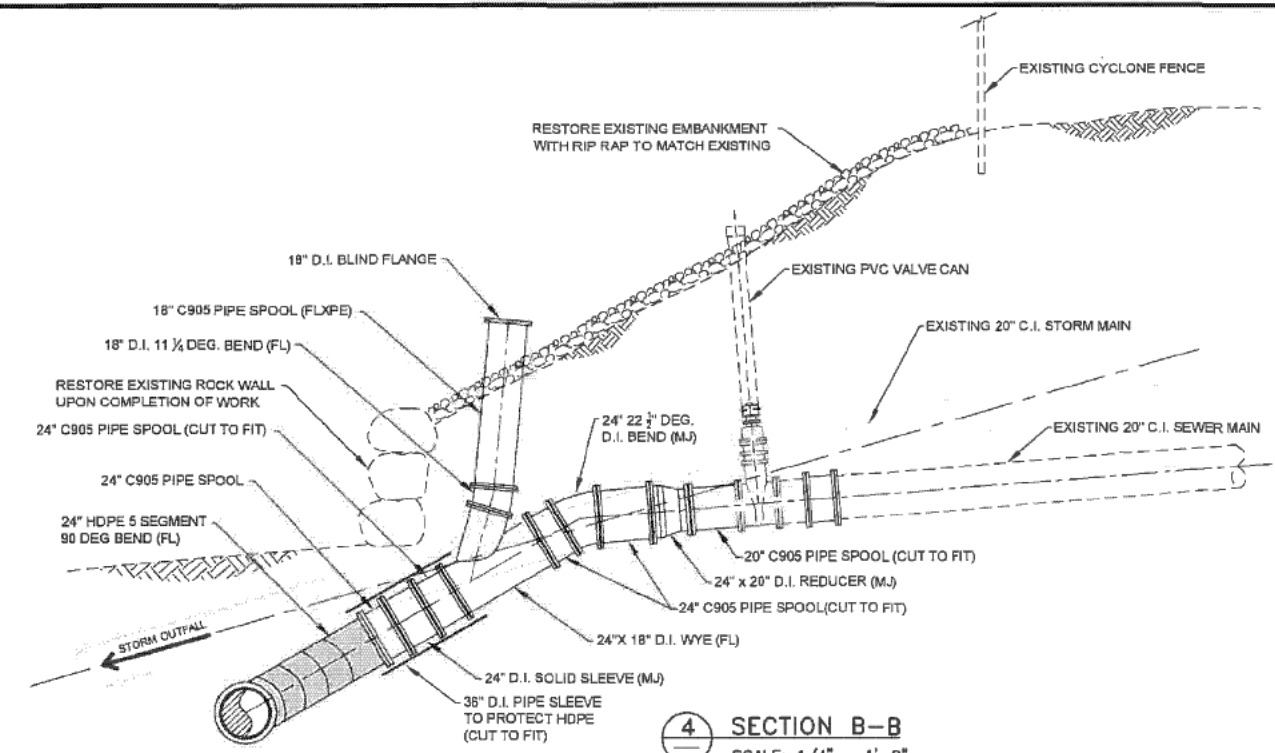
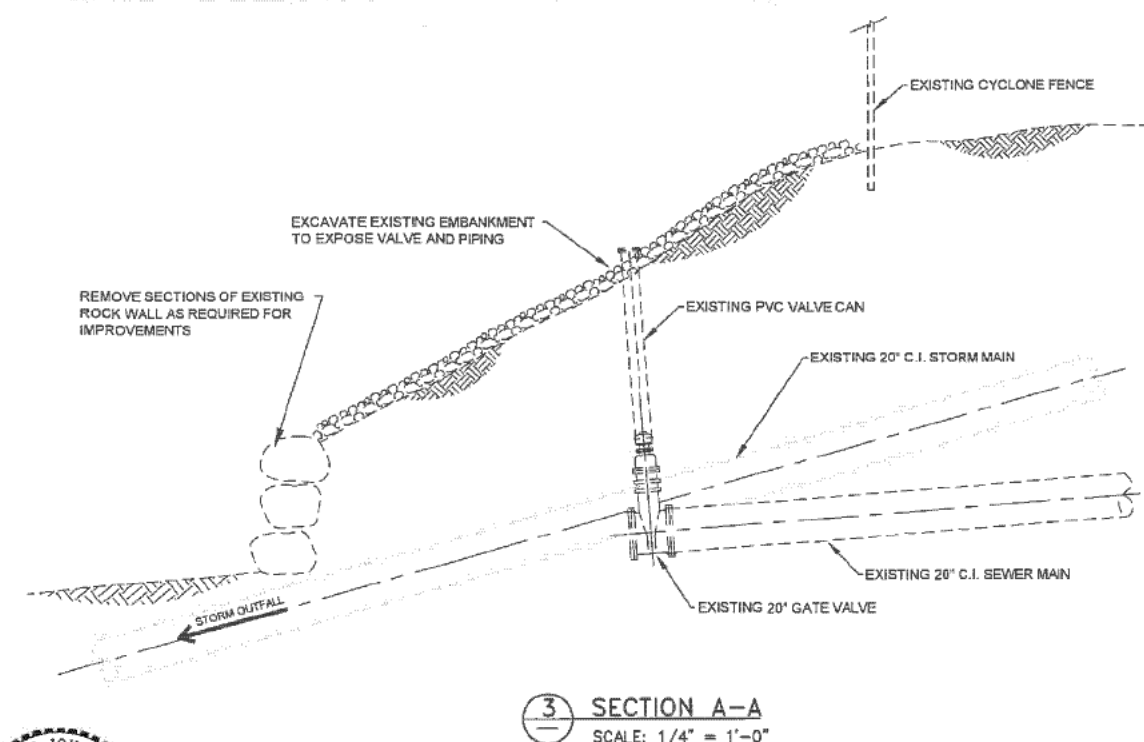
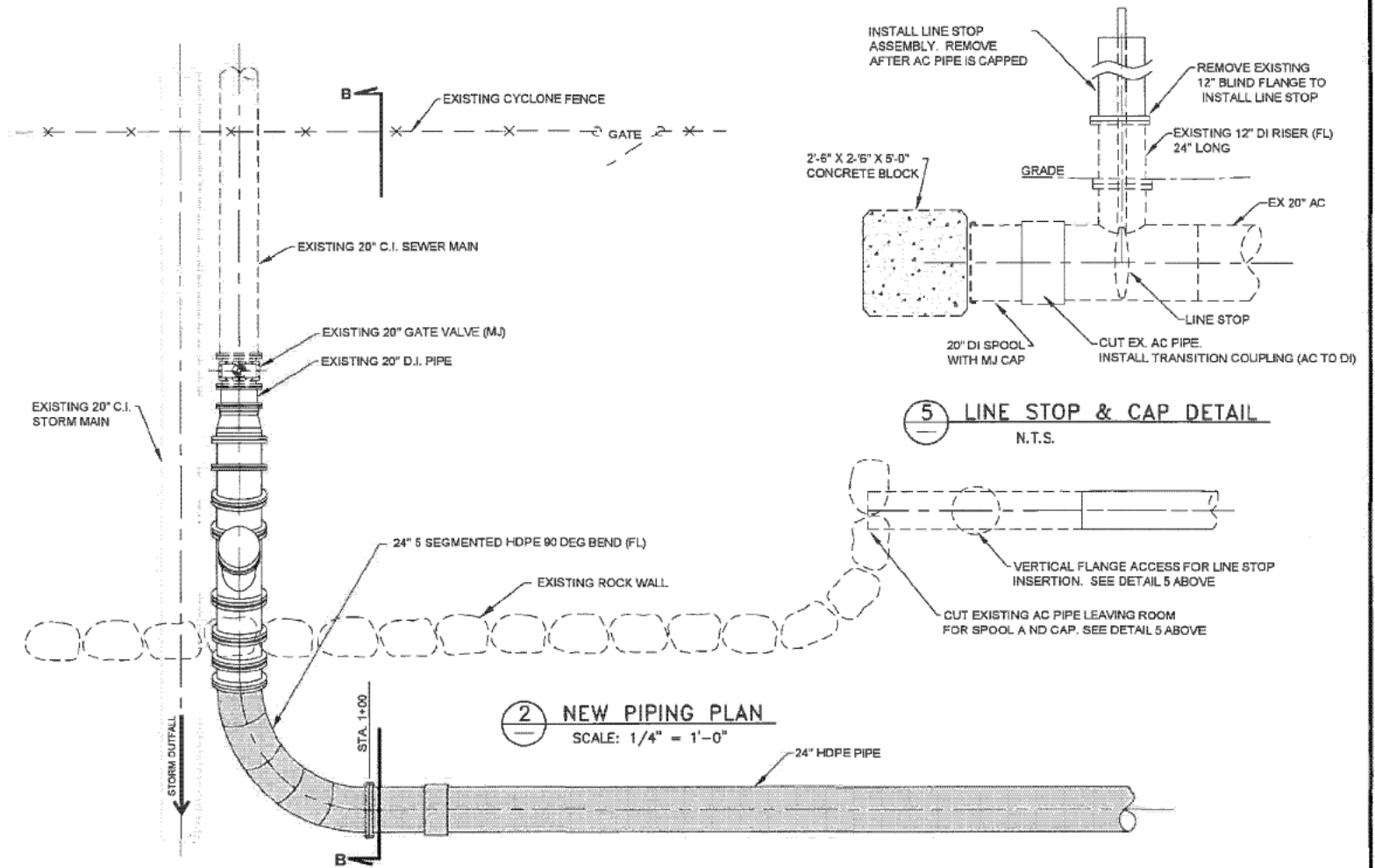
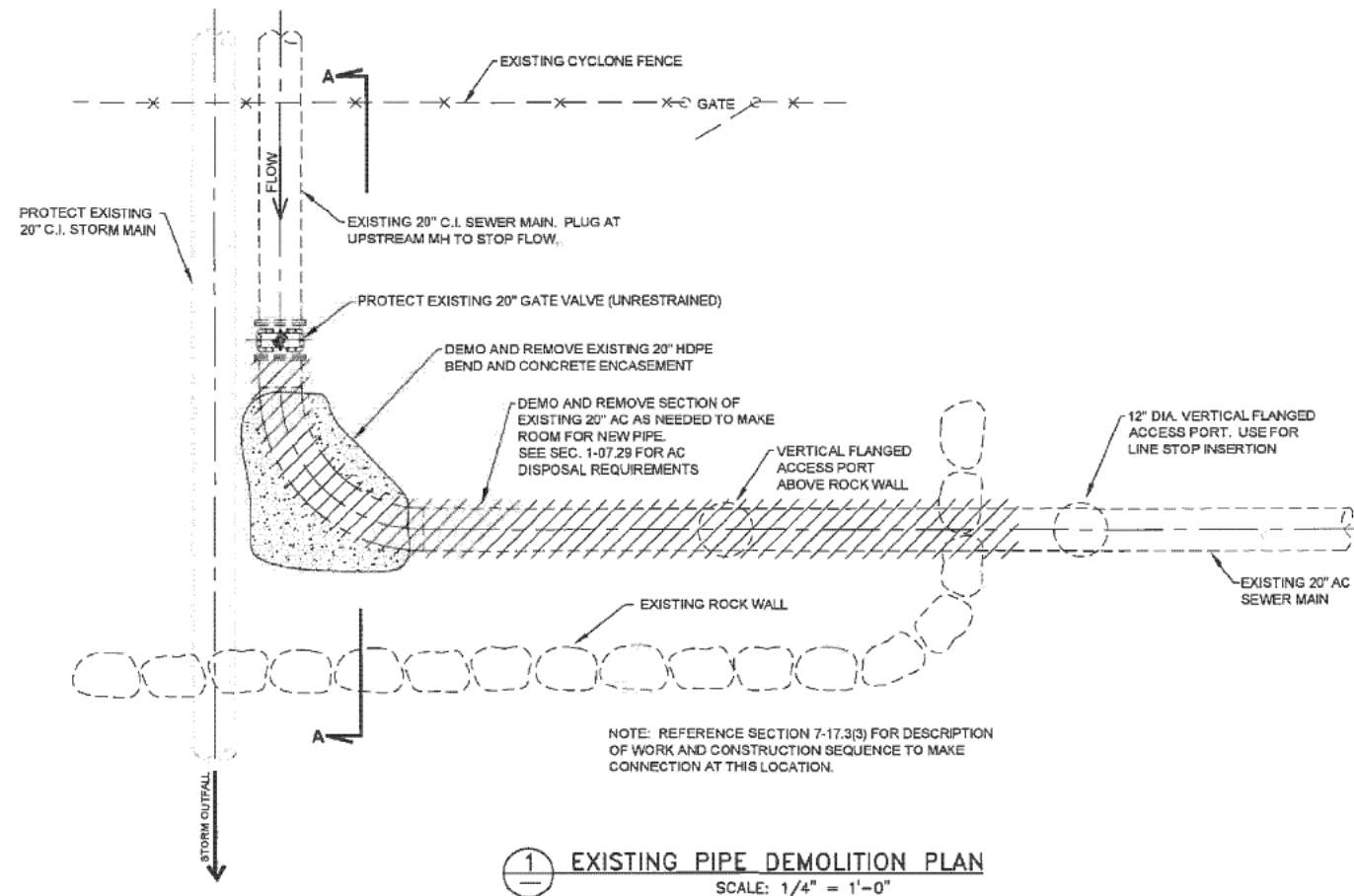
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**EASTSIDE BEACH MAIN REPLACEMENT  
EAST CONNECTION AND BYPASS AT  
STATION 30+82**

PN: 5325	D2 SHEET 12 OF 15
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REVISIONS			
NO.	DESCRIPTION	DATE	BY

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TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY		
SCALE		
HORIZ. N/A	VERT. N/A	

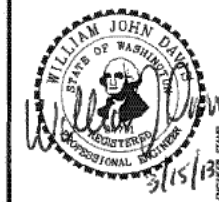
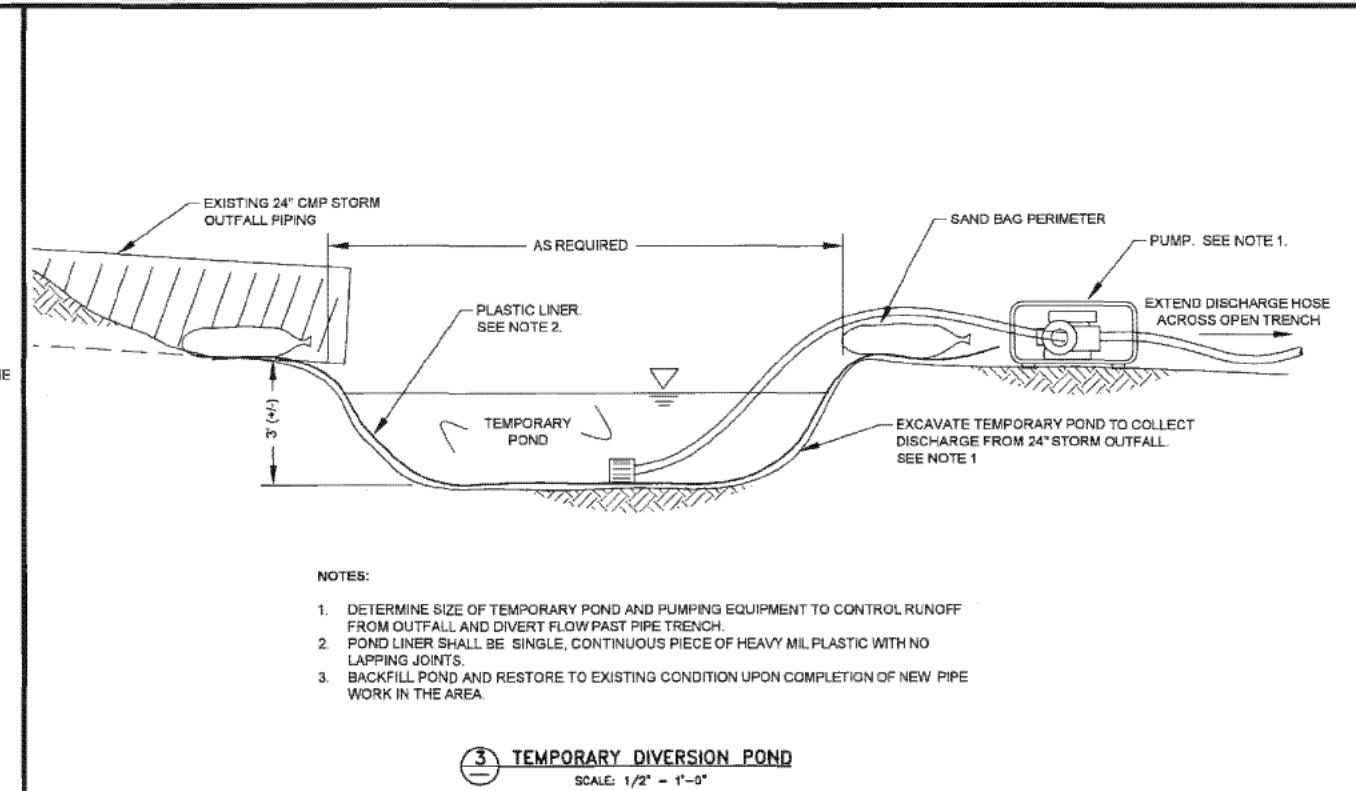
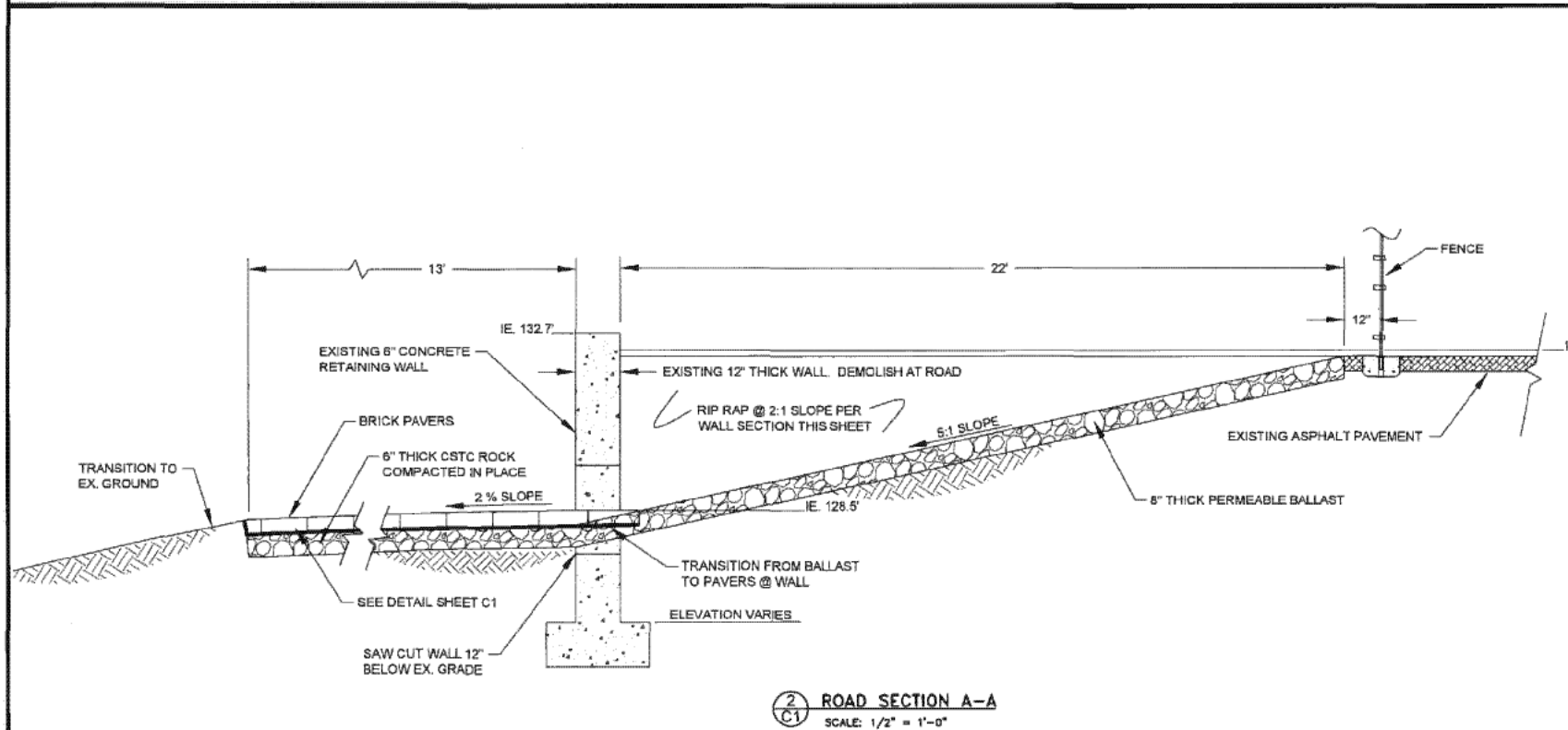
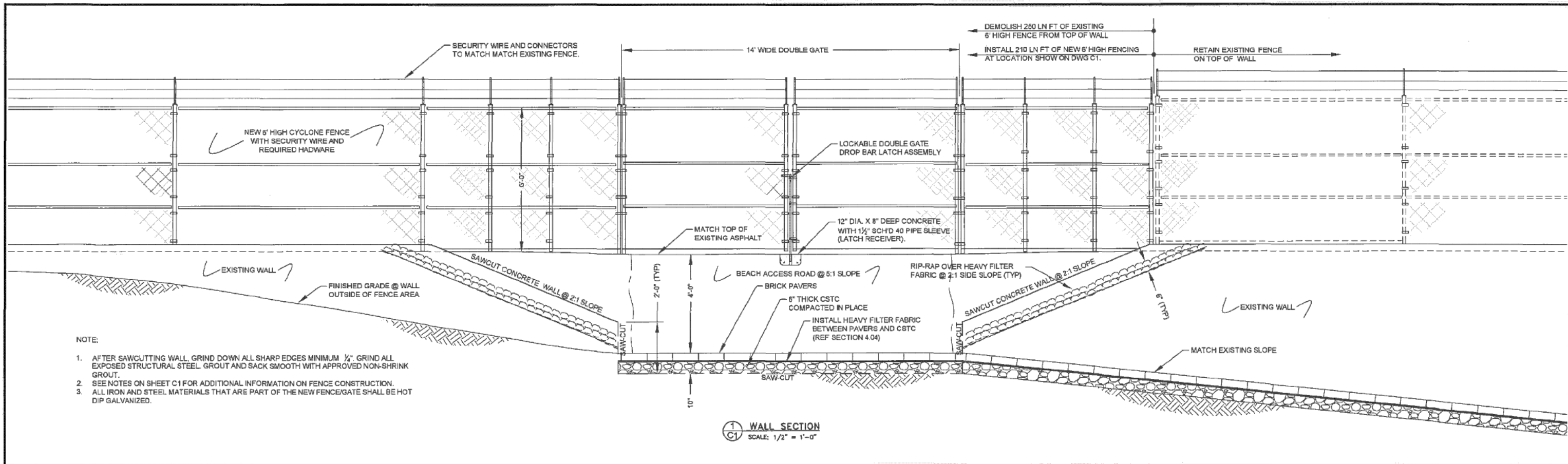
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EASTSIDE BEACH MAIN REPLACEMENT WEST CONNECTION AT STATION 1+00			
PN: 5325	D3 SHEET 13 OF 15		

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	DESCRIPTION		

0	1"	2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY		
SCALE		
HORIZ. N/A	VERT. N/A	

FIELD BOOK
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EASTSIDE BEACH MAIN REPLACEMENT WEST END ACCESS ACCESS ROAD DETAILS	
PN: 5325	D5 SHEET 15 OF 15

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